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Databases for Environmental Analysis: Provincial and Territorial Governments



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Statistics Canada
National Accounts and Environment Division
System of National Accounts

Canadian Council of
Ministers of the
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Databases for Environmental Analysis: Provincial and Territorial Governments

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Preface

Statistics Canada and the Canadian Council of Ministers of the Environment (CCME) have developed this inventory of provincial and territorial databases of potential use in environmental reporting. The inventory is one component of the Environmental Information System (EIS) at Statistics Canada.

This volume is a companion to the 1991 federal government database inventory jointly prepared by Statistics Canada and Environment Canada and titled *Databases for Environmental Analysis: Government of Canada* (Statistics Canada and Environment Canada, 1992). Each volume provides an inventory of databases representing diverse sources of environmental information available for application in state of the environment reporting.

This inventory of provincial and territorial governments builds on a variety of federal, provincial and territorial initiatives to catalogue databases. These include: the Atlantic Coastal Zone Database Directory (Land Registration and Information Service, 1992); the TERRAMON Database, held by Memorial University of Newfoundland (Berger, 1992); the Catalogue of Environmental Data in Atlantic Canada, published by Environment Canada (Spencer, 1991); REPEN, produced by the St. Lawrence Centre (Environment Canada, 1992); the Electronic Inventory of Environmental Data for the Hudson Bay Region, collected by Environment Canada and now part of the Northern Information Network held by Indian Affairs and Northern Development Canada; and the British Columbia Resources Inventory Committee (DMG Group, 1993).

This report is the result of the first comprehensive effort to compile information of provincial and territorial databases for use in reporting on the State of the Environment. Readers are encouraged to contribute and/or identify relevant data holdings that may have been missed. Please refer to the Environmental Database Information Form provided in Section 7.1 (pages 289-291).

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The representatives to the CCME State of the Environment Reporting Task Group initiated the inventory project and contributed to all aspects of its development. In addition to the current members listed on the previous page, the following past members made major contributions: Mr. Brian Kemper (Alberta), Dr. Emil Kucera (Manitoba) and Ms. Beverly Hanna-Thorpe (Ontario). The work of the Provincial/Territorial Statistical Focal Points is also recognized.

Many individuals contributed to this report. We appreciate the assistance of all the database managers, many of whom are listed as contacts in the database descriptions, who helped to ensure the thoroughness of this database inventory. Thanks also to those who provided contact names that facilitated the inventory of large departments/ministries.

Finally, within the National Accounts and Environment Division of Statistics Canada, where this book was produced, valuable contributions are acknowledged from the following individuals: Michael Bordt, Mitzi Ross, Philip Smith and Hélène Trépanier.

1. Introduction

In analysing environmental patterns and trends for State of the Environment (SOE) reporting, one draws upon a wide variety of information. Sources include measures of human activities and environmental processes, data on the state of environmental media and biotic health, and statistics on regulatory and household actions taken in response to environmental concerns. These data come from diverse sources and include the holdings of many federal and provincial/territorial ministries and agencies as well as private sources. The state of the environment reporter needs a means to identify these data sources, to evaluate the appropriateness of the information the bases contain, and to determine how to access the data themselves.

Statistics Canada and Environment Canada have recognized the need for such a tool to assist in the preparation of their own state of the environment reporting products. *Databases for Environmental Analysis: Government of Canada*, was released in December 1992 in printed report and computer diskette formats.

Presently many provinces have prepared, or are beginning to prepare, their own SOE reports and recognize the value of a comprehensive inventory of databases that are available in provincial/territorial jurisdictions. To date, however, there are only limited collections of this information and there is no comprehensive collection to serve the reporting needs of all provincial/territorial jurisdictions.

This publication is the first national effort to develop an inventory of provincial and territorial databases of potential use in environmental reporting. It was a co-operative effort among Statistics Canada and the provinces and territories through the Canadian Council of Ministers of the Environment (CCME). The inventory is a meta-database, that is, a database of databases.

Such an inventory offers a number of benefits. First, the completion of this inventory contributes to the timely and comprehensive picture of environmental databases held by the federal, provincial and territorial governments in Canada. It also guides users to data sources, facilitates access to this information and assists in identification of data gaps in existing environmental information. Second, the inventory enhances the work of the CCME SOE Task Group and its effort in development of a menu of environmental indicators. Improved knowledge of, and access to, environmental databases enables accurate assessments by the provinces and territories of the data required to support indicator development. Improved

data access also benefits the work of other CCME mandated groups. Third, the inventory promotes individual efforts by jurisdictions contemplating SOE reporting programs. Finally, the co-operative development of this inventory strengthens the SOE partnerships currently being forged by the CCME SOE Task Group.

2. Background

There has been a growing recognition in recent years of the importance of periodic analysis and reporting of environmental conditions and trends for development of policies that are environmentally sound and that foster environmental sustainability. Only with reliable information about the state of the environment, and the processes that contribute to environmental conditions, can government, business institutions and private citizens respond appropriately.

Efforts by the Government of Canada to provide this comprehensive environmental picture began in the early 1980's as a cooperative effort involving Statistics Canada and Environment Canada. A first national *State of the Environment Report for Canada* (Environment Canada and Statistics Canada, 1986) was prepared jointly. Statistics Canada also released a second edition of the statistical compendium, *Human Activity and the Environment* (Statistics Canada, 1986). Through these projects, the departments realized that effective state of the environment reporting required extensive knowledge about sources of environmental information. Therefore, after the release of the reports in 1986, state of the environment reporting entered a new phase that recognized the need for the systematic development of new environmental information and the means to better exploit the information that already existed. Another major development during this period has been the adoption of an ecological approach for information management, analysis and reporting. This phase has seen the publication of the second state of the environment report *The State of Canada's Environment* (Government of Canada, 1991) and the third and fourth editions of *Human Activity and the Environment* (Statistics Canada, 1991 and 1994). The third edition of the national state of the environment report is planned for 1996.

Many provinces have also issued reports on the state of the environment. Quebec released its second report, titled *l'État de l'environnement au Québec, 1992* in the summer of 1993. Quebec was the first province to release a state of the environment report. *L'environnement au Québec* was published in 1988. Manitoba published its first report, *State of the Environment: Report for Manitoba*, in 1991. A second edition was released in 1993. Saskatchewan also released its first report in 1991, and has now released a

second report. British Columbia combined efforts with Environment Canada to produce the *State of the Environment Report for British Columbia*.

The four Atlantic Provinces have also worked closely with the Atlantic Regional Office of Environment Canada to produce several regional reports, including *Environmental Quality in the Atlantic Region, 1985*. The preparation of state of the environment reports is also underway in Ontario, Yukon and Alberta.

2.1 Canadian Council of Ministers of the Environment: State of Environment Reporting Task Group

The Canadian Council of Ministers of the Environment (CCME) is the major intergovernmental forum in Canada for discussion and joint action on environmental issues of national, international and global concern. Environment ministers from each of the ten provinces, two territories and the federal government participate in council meetings twice each year. They discuss environmental issues, exchange information, make decisions and establish policy for work to be carried out under the auspices of the CCME.

The Council initially established the State of the Environment Reporting Task Group in 1990 for a two year period. The mandate was subsequently extended to 1994. The CCME "environmental scan" for the year 1991-92 identified both improved decision-making and state of the environment reporting as high priority areas for CCME joint efforts. The November 1991 *Strategic Overview* confirmed, and made more specific, these commitments and the actions to be taken to achieve them.

Priority tasks in the Group's work plans include development of a menu of environmental indicators for use in reporting to the public by governments, establishing priorities for the design and implementation of a national ecological monitoring network and the identification of needs and opportunities to harmonize state of environment reporting activities.

Four SOE Task Group workshops on these topics have been successfully completed. The November 1991 Environmental Indicator Workshop in Toronto was widely attended by the various government jurisdictions and was given the task of developing harmonized environmental indicators for use by member jurisdictions. In October 1992, a second workshop was held on the development of a network of ecological monitoring sites. The third Task Group workshop on harmonizing state of environment reporting activities, in March 1993, discussed continuing cooperation on matters pertaining to the collection, analysis and dissemination of environmental information. The de-

velopment of this national inventory of provincial/territorial environmental databases, in cooperation with Statistics Canada, was one of the major recommendations arising from this third workshop. It was subsequently endorsed by the Deputy Ministers later in the month. In January 1994, a fourth workshop recommended development of a strategy for SOE harmonization and among other initiatives, it was agreed that the task group should begin preliminary work on a collaborative assessment of databases inventoried in both the federal database publication (Statistics Canada and Environment Canada, 1992) and this volume.

2.2 Environment statistics at Statistics Canada

Statistics Canada collects information on the social and economic activities of Canadians. Since the mid-1970's, Statistics Canada has also maintained an ongoing program to serve the needs of a growing community of users of environmental data. Products include:

- an environmental information system containing social, economic and biophysical information for environmental analysis;
- source books of environmental statistics and research results;
- surveys and other new statistics on environmental themes;
- natural resource and environmental accounts and research into environment-economy linkages as part of Statistics Canada's national accounting activities.

2.3 Environmental Information System

The contents of this publication and diskette, together with the contents of the federal environmental database report, form the content of the Database Reference System (DBRS), one component of Statistics Canada's Environmental Information System.

The DBRS documents and facilitates access to information on available federal, provincial and territorial government environmental databases. The development of the DBRS has involved the participation of many federal, provincial and territorial agencies. Databases of both regional and national geographical coverage are included. Regularly updated databases where temporal trends can be examined are considered to be of most value, but others have also been included as they can be useful in providing baseline data against which future data can be compared. Databases stored in machine readable format, in paper files or in any other formats are included.

Since the mid 1970's there has been increased use of socio-economic statistics for environmental analysis. Socio-economic data have been demonstrated, in both Canada and other countries, to be invaluable in the assessment of human activities which place stress on the environment. Therefore not all of the databases included in the DBRS and this publication are concerned with strictly environmental phenomena as measured by biologists or ecologists. A socio-economic focus puts environmental issues into a broader perspective since there are many economic activities competing for environmental resources. Socio-economic information combined with environmental factors begin to explain relationships about the environment and the use of its resources. Understanding these interrelationships is essential in assessing the sources of many environmental problems.

The core of Statistics Canada's Environmental Information System (EIS) is a geographically referenced set of socio-economic and environmental statistics based on Geographic Information System (GIS) technology. The GIS provides the facility to combine socio-economic micro-data with external environmental data. A wide range of data on population and human activities as well as biophysical conditions is held. Information can be custom tabulated to suit the specific needs of the researcher.

A third component of the EIS is a collection of statistical tables which present a broad selection of environmentally relevant information. Most of these tables appear in the Statistics Canada publication *Human Activity and the Environment* and they are also available on diskette. They are updated as new information becomes available.

3. Inventory methods

Departmental database managers were interviewed over the telephone, or solicited by letter, concerning environmental databases for which they were responsible. During each 10 to 20 minute discussion, a standard information form was completed (see Section 7.1) to describe the database(s) identified. In response to the letter solicitation, database managers completed and returned database information forms. Following editing and standardization, all completed database descriptions were returned to respondents for final verification.

4. Report organization

The results of the database inventory are summarized by province and territory in Table 1. Over 830 databases were identified in 101 departments and

Table 1

Summary of Provincial and Territorial Databases Identified and Completed

Province / Territory	Number of Departments	Number of Databases
Newfoundland	7	59
Prince Edward Island	7	34
Nova Scotia	13	72
New Brunswick	7	46
Quebec	10	111
Ontario	9	95
Manitoba	8	38
Saskatchewan	11	89
Alberta	11	102
British Columbia	7	116
Yukon	5	49
Northwest Territories	6	22
Canada	101	833

ministries. The database descriptions presented in Section 5.1 are ordered by province and further grouped by department/ministry. The provincial order is Statistics Canada's standard provincial ordering while the departments/ministries are ordered alphabetically. Two index listings are provided at the end of the report: the Keyword Index cross references keywords listed for each database; the Entry Code Index provides a link between the identification code assigned each database (for reference on diskette) with the corresponding page number from this report.

The databases are also organized into broad subject matter categories to provide the user with an alternative means of identifying data sets of interest. This listing appears as Section 7.2. The subject matter categories are drawn largely from the Population-Environment-Process framework which served to organize *Human Activity and the Environment, 1994* (Statistics Canada, 1994). The subjects cover elements of population, the socio-economy, natural systems and the interactions occurring among them.

In most cases the names of provincial/territorial government departments are not translated. The exceptions being all New Brunswick departments and some institutions where official translations do exist.

The user of this report should be aware that the purpose of this inventory is to catalogue and highlight sources of information. If the reader has an interest in a particular database, the person identified as the database contact should be contacted **directly** for additional information.

Users are advised that many of the databases identified are not held for the primary purpose of serving public requests for information. Many serve the needs of specific government programmes, and mechanisms are not in place for the rapid processing and tabulation of large numbers of general data requests.

5. Database descriptions

Information on each of the databases is presented in a standardized format consisting of eleven items similar to those in the federal inventory (Statistics Canada and Environment Canada, 1992). These items provide a summary of information that allows the user of this publication to evaluate the contents of any given database and determine the value of the data set for a particular application. The purpose for which the data were collected, the summary list of contents, the geographical and temporal coverage, output format

and restrictions and conditions of use will all be important in this regard. This listing also provides the name, address, telephone (and facsimile) number of a person the user of this report may contact to obtain additional information.

The list of keywords in each database entry is intended to aid user searches for databases addressing a particular subject. Most entries also identify related documents in print. Users may wish to obtain these documents for additional information on the subject of interest. An additional list of databases organized by broad subject matter headings is also included in this report as Section 7.2.

The following section presents all database descriptions prepared for this report.

Section 5.1

Environmental Database Holdings by Provincial and Territorial Governments

Databases by Province and Territory

NEWFOUNDLAND

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Control Survey Marker Coordinates
Dams
Groundwater Quality Database
Lakes
Moose and Caribou Hunter Kill Location
Newfoundland Water Quality Network
Protected Water Supply Areas
SO₂, TSP and Ozone Monitoring in Newfoundland
Summary of Pest Control Use from Pest Control Operators
Vehicle Emissions Clinic Data
Water Approvals
Water Quality Database
Water Well Database

Department of Fisheries 21

Fishing Enterprise Survey

Department of Forestry and Agriculture 21

Forest Capability
Forest Type Maps
Forestry Alienations
Insect Damage
Insect Defoliation
On-Farm Mapping
Other Forest Disturbances
Silviculture Treatment Areas

Department of Mines and Energy 24

Annual Census of Mines, Quarries and Sandpits
Glacial Striation Database
Granite Lithogeochemistry (1) Newfoundland (2) Labrador
Grenville Province Projects Database
Labrador Geochronology Database
Labrador Lake Sediment (Detail) Database
Labrador Mapping Database
Labrador Quaternary Geochem Database
Labrador Soil Surveys Database
Labrador Stream Sediment Database
Lithogeochemistry (Volcanic) Database
Newfoundland and Labrador
Beach Permit Information Database
Newfoundland Bedrock Aggregate Database
Newfoundland Carbon 14 Database
Newfoundland Drill Core Assay Database
Newfoundland Drill Core Index
Newfoundland Geochronology Database
Newfoundland Lake Sediment Database
Newfoundland Mineral Occurrence Data System 1 -
Mineral Inventory Reports
Newfoundland Mineral Rights Database
Newfoundland Quaternary Mapping Database
Newfoundland Sand and Gravel Aggregate Database
Newfoundland Shale Database
Newfoundland Soil Survey Database
Newfoundland Stream Sediment Database

Quaternary and Geochemistry South West Newfoundland
Regional Aeromagnetic Data (1) Newfoundland - (2) Labrador
Regional Bouguer Gravity Database

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Non-Resident Air Exit Surveys
Non-Resident Auto Exit Surveys
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Provincial Park User Survey

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Non-standard Climate Data Sets for Newfoundland
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1980 Forest Inventory
1990 Forest Inventory
Forest Inventory - Ground Plots
Forest Inventory - Stands
Frost Risk Areas
Laboratory Information System
Permanent Forest Sample Plot
Soils of Prince Edward Island
Soybean Adaptation Trial
Total Fish Landings and Values History

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Department of Environmental Resources Regulatory Action
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Game Harvesting Data
Petroleum Storage Tank Management System
Spills
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Water Well Information System
Wild Fur Harvesting Data

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Department of Health and Social Services 42

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Congenital Anomaly Registry
Oncology Registry
Tuberculosis Registry

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Crown Land Inventory	
Driver/Vehicle System	
Highway Maintenance Management System	
Integrated Traffic Management System (ITMS)	
Single Application Vehicle Registration	

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Plant Tissue Database	
Soil Fertility	
Water Analysis Database	
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Maritime Breeding Bird Atlas	
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Groundwater Levels	
Hazardous Waste Management System	
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New Brunswick Biomonitoring Program	
New Brunswick CFC Inventory Program	
New Brunswick Department of the Environment	
CFC User Inventory	
New Brunswick Halon Inventory	
New Brunswick Precipitation Monitoring Network	
New Brunswick Residue Discharge Information System	
Occurrence Reporting System	
PCB Inventory System	
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 Industrial Depollution Program Incident Monitoring Systems
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Provincial Snow and Winter Severity Database	
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NEWFOUNDLAND



Department of Environment and Lands

Acid Rain Monitoring

ARM-0387-E

1. **Summary description:** Acid rain monitoring at several sites in Newfoundland.
- 2a. **Responsible organization:** Department of Environment and Lands
- 2b. **Database contact:** Mr. Robert Whelan, Chemist, Industrial Environmental Engineering Division, Department of Environment and Lands, Howley Building, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-4147 *Facsimile:* (709) 729-0320
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - pH, SO_4^{2-} , N-NO_3^- , N-NH_4 , Na, Cl^- , Ca, K, Mg
 - conductivity
- 3b. **Data acquisition methods:** Field measurements. Measurements collected by departmental staff.
- 3c. **Geographic coverage:** Several sites in Newfoundland (see 11).
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** Start dates (continuing to present) for each site: Gros Morne, 1982; Terra Nova, 1981; Cormack, 1986; Hope Brook, 1989; Bay d'Espoir, 1983; Salmonier, 1991.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Acid precipitation; Atlantic; Contaminants
11. **Additional information:** Acid rain measurement sites include: Gros Morne; Terra Nova (site moved in 1992); Cormack; Hope Brook; Bay d'Espoir; Salmonier.

Control Survey Marker Coordinates

CSM-0014-E

1. **Summary description:** A network of 6,000 permanent survey markers having horizontal and vertical coordinates used to reference legal surveys, engineering surveys and topographic maps.
- 2a. **Responsible organization:** Department of Environment and Lands
- 2b. **Database contact:** Mr. Neil MacNaughton, Director, Surveys and Mapping, Department of Environment and Lands, Howley Building, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-3239 *Facsimile:* (709) 709-0690

- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - coordinates of markers (horizontal, vertical)
- 3b. **Data acquisition methods:** Surveys and mapping. Survey measurements.
- 3c. **Geographic coverage:** Western, central and eastern regions of Newfoundland and Labrador - 90 percent complete.
- 3d. **Geographic units of measure:** Latitude and longitude, northing and easting, NAD27, NAD83, 3 degree Universal Transverse Mercator Projection.
- 3e. **Period of record:** 1963 to 1991.
- 3f. **Update frequency:** Updated in 1992.
- 4a. **Database storage format:** Hardcopy, 9 track tape, diskette.
- 4b. **Database computer environment:** VAX 4000-200.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Geographic Information System; Engineering; Atlantic
11. **Additional information:** This listing of geographic positions is the primary reference system for all integrated GIS data that is tied to ground surveys, satellite surveys or referenced to integrated base maps.

Dams

DAM-0168-E

1. **Summary description:** Inventory of dams in Newfoundland.
- 2a. **Responsible organization:** Department of Environment and Lands
- 2b. **Database contact:** Mr. Martin Goebel, Head, Water Investigations Section, Water Resources, Department of Environment and Lands, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-5713 *Facsimile:* (709) 729-0320
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - map sheets (date)
 - water area controlled
 - purpose of dam
 - northing and easting
- 3b. **Data acquisition methods:** Map interpretation. 1:50 000 scale topographic maps.
- 3c. **Geographic coverage:** Newfoundland.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** Not applicable.
- 4a. **Database storage format:** Hard disk.
- 4b. **Database computer environment:** PC, LOTUS 123.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Engineering; Rivers; Water
11. **Additional information:** None.

Groundwater Quality Database

GWQ-0190-E

1. **Summary description:** Information on groundwater quality obtained from 250 sampled drilled wells throughout Newfoundland and Labrador.
- 2a. **Responsible organization:** Department of Environment and Lands
- 2b. **Database contact:** Mr. Bob Lethbridge, Water Well Inspector, Groundwater Section, Water Resources Division, Department of Environment and Lands, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-3398 *Facsimile:* (709) 729-0320
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - total dissolved solids
 - magnesium, sodium, potassium
 - iron sulphate, nitrate and nitrite
 - chloride, fluoride
 - pH, hardness, alkalinity
 - apparent colour
 - total phosphorous
 - specific conductants
 - calcium, zinc, manganese
 - investigation
 - samples
- 3b. **Data acquisition methods:** Random samples. Water well inspection and analysis of naturally occurring problems.
- 3c. **Geographic coverage:** Newfoundland.
- 3d. **Geographic units of measure:** UTM coordinates.
- 3e. **Period of record:** 1980 to present.
- 3f. **Update frequency:** Approximately every 2 months.
- 4a. **Database storage format:** Hard drive, diskette.
- 4b. **Database computer environment:** PC, DBASE IV.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Hydrology; Water
11. **Additional information:** This database can be cross-referenced with Water Well Database (Newfoundland) through well numbers.

Lakes

LAK-0167-E

1. **Summary description:** Inventory of lakes and ponds in Newfoundland and Labrador.
- 2a. **Responsible organization:** Department of Environment and Lands
- 2b. **Database contact:** Mr. Martin Goebel, Head, Water Investigations Section, Water Resources, Department of Environment and Lands, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-5713 *Facsimile:* (709) 729-0320
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - lake pond name
 - surface area
 - perimeter
 - basin shape
 - region (Newfoundland and Labrador)
 - northing and easting
 - elevation (inflow, outflow)

- 3b. **Data acquisition methods:** 1:50 000 scale topographic maps.
- 3c. **Geographic coverage:** Newfoundland and Labrador.
- 3d. **Geographic units of measure:** UTM coordinates.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** Not applicable.
- 4a. **Database storage format:** Hard disk, diskette.
- 4b. **Database computer environment:** PC, LOTUS 123.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Hydrology; Lakes; Water
11. **Additional information:** None.

Moose and Caribou Hunter Kill Location

MCH-0015-E

1. **Summary description:** List by year (1966-present) for each Management Unit of location where hunters reported their kill for moose and caribou. Each block is 5 miles square and since 1986 are further subdivided into 4 smaller blocks.
- 2a. **Responsible organization:** Department of Environment and Lands
- 2b. **Database contact:** Mr. Mike Strapp, Wildlife Division, Department of Environment and Lands, Building 810, P.O. Box 8700, Pleasantville, Nfld. A1B 4J6
Phone: (709) 729-5657 *Facsimile:* (709) 729-6629
or Mr. Peter Haley *Phone:* (709) 729-2541
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - kill locations (moose, caribou)
- 3b. **Data acquisition methods:** Monitoring and mapping. Table digitized.
- 3c. **Geographic coverage:** Western, central and eastern regions of Newfoundland at a scale of 1:50 000 - 10 percent complete.
- 3d. **Geographic units of measure:** UTM coordinates, northing and easting, 6 degree Universal Transverse Mercator Projection.
- 3e. **Period of record:** 1974 to present.
- 3f. **Update frequency:** Updated in 1990.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, AUTOCAD, TERRASOFT, DBASE.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Mammals; Wildlife
11. **Additional information:**
 1. A map of Newfoundland has been digitized with overlay of blocks with their identifying numbers (UTM grid).
 2. Hard-copies (tables) have been compiled for management areas and years.
 3. Yet to be completed: overlay of information from DBASE onto GIS for display of kill location data.

Newfoundland Water Quality Network

NWQ-0393-E

1. **Summary description:** A provincial network of river water quality stations.
- 2a. **Responsible organization:** Department of Environment and Lands
- 2b. **Database contact:** Mr. John C. Kingston, Water Quality Manager, Water Resources Management Division, Department of Environment and Lands, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-0352 *Facsimile:* (709) 729-0320
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - chemical (major ions, nutrients, trace metals)
 - total and fecal coliform bacteria
- 3b. **Data acquisition methods:** Sampling and laboratory analysis. Water samples and field data collected by departmental staff. Chemical analyses conducted by the Department of Chemistry, Memorial University of Newfoundland.
- 3c. **Geographic coverage:** Eastern Newfoundland (14 stations on separate rivers).
- 3d. **Geographic units of measure:** Whole-basin stations, above tidal influence.
- 3e. **Period of record:** 1977 to 1986.
- 3f. **Update frequency:** Not applicable.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Water Quality Data Summary Statistics, 1972, 1986, 1988.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Human Health; Water
11. **Additional information:**
 1. This network (14 stations in eastern Newfoundland) was a partial implementation of a network plan for Newfoundland and Labrador. It was superseded by the Index Network of the Canada-Newfoundland Water Quality Monitoring Agreement in 1986.
 2. This database is also available on NAQUADAT, through Environment Canada.

Protected Water Supply Areas

PWS-0161-E

1. **Summary description:** General information about water quality and land uses in water supply areas.
- 2a. **Responsible organization:** Department of Environment and Lands
- 2b. **Database contact:** Mr. Haseen U. Khan, Manager, Surface Water Section, Department of Environment and Lands, P.O. Box 8700, St. John's, Nfld.
Phone: (709) 729-2535 *Facsimile:* (709) 729-0320
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - water quality (organic source, inorganic source)
 - population
 - drainage area
 - protected area
 - land use activities

- 3b. **Data acquisition methods:** Field survey and sampling. Data input by departmental staff.
- 3c. **Geographic coverage:** Newfoundland.
- 3d. **Geographic units of measure:** Municipality.
- 3e. **Period of record:** 1985 to 1993.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Hydrology; Water
11. **Additional information:** None.

SO₂, TSP and Ozone Monitoring in Newfoundland

STO-0389-E

1. **Summary description:** SO₂, TSP and ozone monitoring at various sites in Newfoundland.
- 2a. **Responsible organization:** Department of Environment and Lands
- 2b. **Database contact:** Mr. Barry Lawrence, Statistician, Industrial Environmental Engineering Division, Department of Environment and Lands, Howley Building, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-6052 *Facsimile:* (709) 729-0320
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - SO₂
 - TSP
 - ozone
- 3b. **Data acquisition methods:** Field measurements. Measurements collected by departmental staff.
- 3c. **Geographic coverage:** Newfoundland.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** See 11 for monitoring location names, start dates and measurement particulars.
- 3f. **Update frequency:** SO₂ and Ozone received daily, TSP monthly (see 11).
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Air quality; Atlantic; Contaminants
11. **Additional information:**
 1. SO₂ monitoring sites and data collection start dates include: Cornerbrook (1983); Come by Chance (1988); Sunnyside (1988); Grand Falls (1983 to 1989); Arnold's Cove (1988).
 2. TSP monitoring sites and data collection start dates include: Labrador City (4 sites - 1975); Corner Brook (4 sites - 1990).
 3. Ozone monitoring site and data collection start date: Mount Pearl (1991).
 4. SO₂ monitoring data measured hourly; TSP data measured every 3 days; Ozone data measured hourly, May to October.

Summary of Pest Control Use from Pest Control Operators

SPU-0020-E

1. **Summary description:** To keep track of commercial pesticides used in Newfoundland.
- 2a. **Responsible organization:** Department of Environment and Lands
- 2b. **Database contact:** Mr. Richard Martin, Department of Environment and Lands, Confederation Building, West Block, P.O. Box 4750, St. John's, Nfld. A1C 5T7
Phone: (709) 729-3395 *Facsimile:* (709) 729-1930
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- chemical used (pesticides, type, PCP registration number, quantity, amount)
- 3b. **Data acquisition methods:** Licensing. Periodic reporting by vendors and operators.
- 3c. **Geographic coverage:** Newfoundland and Labrador.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1989 to present.
- 3f. **Update frequency:** Daily.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, WORDPERFECT.
5. **Restrictions and conditions:** Personal information included in the records is not released.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Contaminants; Pesticides
11. **Additional information:** Estimate 3,000 records by 1994/95.

Vehicle Emissions Clinic Data

VEC-0388-E

1. **Summary description:** Vehicle emission data measured at various volunteer clinics.
- 2a. **Responsible organization:** Department of Environment and Lands
- 2b. **Database contact:** Mr. Barry Lawrence, Statistician, Industrial Environmental Engineering Division, Department of Environment and Lands, Howley Building, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-6052 *Facsimile:* (709) 729-0320
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- O₂, CO₂, HC
- 3b. **Data acquisition methods:** Field measurements. Measurements collected by departmental staff.
- 3c. **Geographic coverage:** Newfoundland.
- 3d. **Geographic units of measure:** Site location.
- 3e. **Period of record:** 1989 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.

9. **User aids available:** None.
10. **Keywords:** Atlantic; Contaminants; Vehicles
11. **Additional information:** None.

Water Approvals

WAP-0169-E

1. **Summary description:** List of approvals issued under Section 27 of the Department of Environment and Lands Act.
- 2a. **Responsible organization:** Department of Environment and Lands
- 2b. **Database contact:** Mr. Martin Goebel, Head, Water Investigations Section, Water Resources, Department of Environment and Lands, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-5713 *Facsimile:* (709) 729-0320
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- year (month)
- file (number, applicant, owner)
- location (waterbody)
- project (completion)
- 3b. **Data acquisition methods:** Applications. Manual entry.
- 3c. **Geographic coverage:** Newfoundland.
- 3d. **Geographic units of measure:** Waterbody.
- 3e. **Period of record:** 1981 to present.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Hard disk, diskette.
- 4b. **Database computer environment:** IBM PC, LOTUS 123.
5. **Restrictions and conditions:** Internal use only.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Hydrology; Water
11. **Additional information:** None.

Water Quality Database

WQD-0073-E

1. **Summary description:** Storage and management of surface water quality data for Newfoundland and Labrador.
- 2a. **Responsible organization:** Department of Environment and Lands
- 2b. **Database contact:** Mr. John C. Kingston, Water Quality Manager, Water Resources Management Division, Department of Environment and Lands, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-0352 *Facsimile:* (709) 729-0320
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- chemical (major ions, nutrients, metals, organic carbon/PCBs from water)
- sediment
- fish tissue
- 40 parameters measured
- 3b. **Data acquisition methods:** Sampling. Grab samples, usually monthly (62 sites at present).
- 3c. **Geographic coverage:** Newfoundland and Labrador. Provincial data from 1977-1986; joint federal provincial data from 1986 to present.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1977 to present.

- 3f. **Update frequency:** Irregular.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** User's manual.
10. **Keywords:** Atlantic; Hydrology; Water quality
11. **Additional information:** This database is also available on NAQUADAT, through Environment Canada, Moncton, NB, contact: Mr. Richard Bingham. Approximately 5,000 records.

Water Well Database

WWD-0189-E

1. **Summary description:** Information on drilled wells in Newfoundland supplied from water well records received by well drillers.
- 2a. **Responsible organization:** Department of Environment and Lands
- 2b. **Database contact:** Mr. Bob Lethbridge, Water Well Inspector, Groundwater Section, Water Resources Division, Department of Environment and Lands, P.O. Box 8700, St. John's Nfld. A1B 4J6
Phone: (709) 729-3398 Facsimile: (709) 729-0320
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - well (depth, yield, date drilled, static water level, test time, type of water, northing and easting, UTM coordinates)
 - community
 - owner
 - well (number driller, elevation, location, lithology, final status, water use)
- 3b. **Data acquisition methods:** Hardcopy water well inspection sheets supplied by well drillers. Approximately 12,000 on file.
- 3c. **Geographic coverage:** Newfoundland.
- 3d. **Geographic units of measure:** UTM coordinates.
- 3e. **Period of record:** 1960 to present.
- 3f. **Update frequency:** Approximately every 2 months.
- 4a. **Database storage format:** Hard disk, diskette.
- 4b. **Database computer environment:** PC, DBASE IV.
5. **Restrictions and conditions:** None.
6. **Price information:** \$20.00 per publication.
7. **Corresponding printed sources:** *Water Well Data for Newfoundland and Labrador, 1984-1990.* Department of Environment and Lands, Water Resources Report 1-3, Groundwater Series, 1990.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Hydrology; Water
11. **Additional information:**
 1. Data on 7,000 wells out of the 8,000 to 9,000 drilled since 1950 when records were first required. Data from 700 new wells drilled each year.
 2. This database can be cross-referenced with Groundwater Quality Database by well number.



Department of Fisheries

Fishing Enterprise Survey

FES-0165-E

1. **Summary description:** Financial data on costs, earnings and effort of fishermen in vessels under 65 feet in Newfoundland.
- 2a. **Responsible organization:** Department of Fisheries
- 2b. **Database contact:** Mr. Fred J. Hutcheson, Cost Research Analyst (Harvesting), Planning Services, Department of Fisheries, 30 Strawberry Marsh Road, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-6873 Facsimile: (709) 729-6082
- 2c. **Access mechanisms:** Through the responsible organization and DFO, St. John's.
- 3a. **Parameters measured:**
 - capital equipment (costs/age)
 - current costs
 - catch by species/gear
 - effort by vessel/gear
- 3b. **Data acquisition methods:** Survey and interviews with enterprise members. Data compiled by departmental staff.
- 3c. **Geographic coverage:** Newfoundland.
- 3d. **Geographic units of measure:** Summarized by NAFO division and/or statistical section.
- 3e. **Period of record:** 1984 to 1992.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE.
5. **Restrictions and conditions:** Only summaries available.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Department of Fisheries and Oceans (DFO) reports, departmental reports.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Economics; Fisheries
11. **Additional information:**
 1. Contains confidential financial data.
 2. This is a joint survey with Department of Fisheries and Oceans. The raw data is shared between Planning Services, Department of Fisheries (Nfld.) and Programs and Economics Branch (DFO).



Department of Forestry and Agriculture

Forest Capability

FCA-0103-E

1. **Summary description:** Indicates the capability of an area for growing different species of trees.
- 2a. **Responsible organization:** Department of Forestry and Agriculture

- 2b. Database contact:** Mr. David Brown, Department of Forestry and Agriculture, P.O. Box 2006, Herald Building, Corner Brook, Nfld. A2H 6J8
Phone: (709) 637-2342 *Facsimile:* (709) 637-2403
- 2c. Access mechanisms:** Through the technical contact.
- 3a. Parameters measured:**
 - boundaries of soil types
 - tree species
- 3b. Data acquisition methods:** Monitoring and Mapping. Table digitized.
- 3c. Geographic coverage:** Newfoundland.
- 3d. Geographic units of measure:** UTM coordinates.
- 3e. Period of record:** 1988 to 1990.
- 3f. Update frequency:** Not applicable.
- 4a. Database storage format:** 9 Track tape, 150 MB tape cartridge, 8mm exabyte tape.
- 4b. Database computer environment:** PRIME 9955-II, SUN, ARC/INFO GIS.
- 5. Restrictions and conditions:** None.
- 6. Price information:** Charge per map plus preparation time.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** List of codes used.
- 10. Keywords:** Atlantic; Forestry; Trees; Geographic Information System
- 11. Additional information:** None.

Forest Type Maps

FOR-0025-E

- 1. Summary description:** Indicates landcover, including forest types, for forest management.
- 2a. Responsible organization:** Department of Forestry and Agriculture
- 2b. Database contact:** Mr. David Brown, Department of Forestry and Agriculture, P.O. Box 2006, Herald Building, Corner Brook, Nfld. A2H 6J8
Phone: (709) 637-2342 *Facsimile:* (709) 637-2403
- 2c. Access mechanisms:** Through the technical contact.
- 3a. Parameters measured:**
 - BASE - borders of mapsheet
 - HYDR - water features
 - LINE - linear features
 - LCOV - land cover boundaries
 - OWNER - timber ownership and land tenure boundaries
 - ANNO - textual data such as place names
 - MGMT - management district boundaries
 - PNTS - point features
- 3b. Data acquisition methods:** Monitoring and mapping. Aerial photography, table digitized.
- 3c. Geographic coverage:** Western, central and east coast of Newfoundland, central Labrador - 65 percent complete.
- 3d. Geographic units of measure:** Scale 1:12 500, UTM coordinates, latitude and longitude, northing and easting, NAD27, 3 degree Universal Transverse Mercator Projection.
- 3e. Period of record:** 1986 to present.
- 3f. Update frequency:** Annually.
- 4a. Database storage format:** 9 Track tape, 150 MB Tape cartridge, 8mm exabyte tape.
- 4b. Database computer environment:** PRIME 9955-II, SUN, ARC/INFO GIS.
- 5. Restrictions and conditions:** None.

- 6. Price information:** \$400.00 per map section, volume discounts.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** FORMAP database catalogue.
- 10. Keywords:** Atlantic; Forestry; Geographic Information System; Trees
- 11. Additional information:** None.

Forestry Alienations

FA-0022-E

- 1. Summary description:** Contains areas in which forestry activity is restricted or prohibited. Polygons show the boundary and cause of the alienation.
- 2a. Responsible organization:** Department of Forestry and Agriculture
- 2b. Database contact:** Mr. David Brown, Department of Forestry and Agriculture, P.O. Box 2006, Herald Building, Corner Brook, Nfld. A2H 6J8
Phone: (709) 637-2342 *Facsimile:* (709) 637-2403
- 2c. Access mechanisms:** Through the technical contact.
- 3a. Parameters measured:**
 - boundaries (alienated areas)
- 3b. Data acquisition methods:** Monitoring and Mapping. Maps from different land use agencies, table digitized.
- 3c. Geographic coverage:** Newfoundland at a scale of 1:12 500.
- 3d. Geographic units of measure:** UTM coordinates, latitude and longitude, northing and easting, 3 degree Transverse Mercator Projection.
- 3e. Period of record:** 1988 to present.
- 3f. Update frequency:** Annually.
- 4a. Database storage format:** Hardcopy, 9 track tape, 150 MB tape cartridge, 8mm exabyte tape.
- 4b. Database computer environment:** SUN, ARC/INFO GIS.
- 5. Restrictions and conditions:** None.
- 6. Price information:** Charge per map section plus preparation time.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** List of codes used.
- 10. Keywords:** Atlantic; Enforcement; Forestry; Geographic Information System
- 11. Additional information:** None.

Insect Damage

IDA-0023-E

- 1. Summary description:** Indicates areas of insect damage and the severity of that damage.
- 2a. Responsible organization:** Department of Forestry and Agriculture
- 2b. Database contact:** Mr. David Brown, Department of Forestry and Agriculture, Herald Building, P.O. Box 2006, Corner Brook, Nfld. A2H 6J8
Phone: (709) 637-2342 *Facsimile:* (709) 637-2403
- 2c. Access mechanisms:** Through the technical contact.
- 3a. Parameters measured:**
 - degree of insect damage
- 3b. Data acquisition methods:** Monitoring and mapping. Satellite imagery.
- 3c. Geographic coverage:** Newfoundland - 40 percent complete.

- 3d. **Geographic units of measure:** Scale 1:25 000, UTM coordinates, latitude and longitude, northing and easting, NAD27, 3 degree Universal Transverse Mercator Projection.
- 3e. **Period of record:** 1989 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** 9 track tape, 150 MB tape cartridge, 8mm exabyte tape.
- 4b. **Database computer environment:** PRIME 9955-II, SUN, ARC/INFO GIS.
5. **Restrictions and conditions:** None.
6. **Price information:** Charge per map section plus preparation time.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** List of codes used.
10. **Keywords:** Atlantic; Forestry; Geographic Information System; Insects
11. **Additional information:** None.

Insect Defoliation

IDE-0024-E

1. **Summary description:** Indicates areas of defoliation caused by insects, the type of insect and the severity.
- 2a. **Responsible organization:** Department of Forestry and Agriculture
- 2b. **Database contact:** Mr. David Brown, Department of Forestry and Agriculture, Herald Building, P.O. Box 6000, Corner Brook, Nfld. A2H 6J8
Phone: (709) 637-2342 *Facsimile:* (709) 637-2403
- 2c. **Access mechanisms:** See data centre contact.
- 3a. **Parameters measured:**
 - insects (type)
 - defoliation (degree caused by insects, severity)
- 3b. **Data acquisition methods:** Monitoring and mapping. Table digitized.
- 3c. **Geographic coverage:** Newfoundland.
- 3d. **Geographic units of measure:** Scale 1:25 000, latitude and longitude, northing and easting, NAD27, 3 degree Transverse Mercator Projection, UTM coordinates.
- 3e. **Period of record:** 1989 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** 9 Track tape, 150 MB tape cartridge, 8mm exabyte tape.
- 4b. **Database computer environment:** PRIME 9955-II, SUN, ARC/INFO GIS.
5. **Restrictions and conditions:** None.
6. **Price information:** Charge per map section plus preparation time.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** List of codes used.
10. **Keywords:** Atlantic; Geographic Information System; Insects; Wildlife
11. **Additional information:** None.

On-Farm Mapping

OFM-0026-E

1. **Summary description:** This database contains layered information on hydro, transportation, farm land-use and soils.

- 2a. **Responsible organization:** Department of Forestry and Agriculture

- 2b. **Database contact:** Mr. Garry Kirby, Soil and Land Management, Department of Forestry and Agriculture, Provincial Agriculture Building, P.O. Box 8700, Brookfield Road, St. John's, Nfld. A1B 4J6

Phone: (709) 729-6645 *Facsimile:* (709) 729-6046

- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - hydrography
 - transportation
 - legal
 - land use data (field size (acres or hectares), present crop, total area of land base, number of land holdings)
 - soil data
- 3b. **Data acquisition methods:** Mapping and surveys. Table digitized.
- 3c. **Geographic coverage:** Western region of Newfoundland at a scale of 1:2 500.
- 3d. **Geographic units of measure:** Northing and easting, NAD27, NAD83, 3 degree Transverse Mercator Projection.
- 3e. **Period of record:** 1991 to present.
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Hardcopy, mylar, diskette, 9 track tape.
- 4b. **Database computer environment:** PC, ARC/INFO GIS, DBASE.
5. **Restrictions and conditions:** Access is restricted.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Agriculture; Atlantic; Geographic Information System; Landscape
11. **Additional information:** This database is comprised of 3 files. See data centre contact for further information.

Other Forest Disturbances

OFD-0033-E

1. **Summary description:** Indicates areas of forest that have been disturbed by other than insect damage. The cause of the disturbance is also shown.
- 2a. **Responsible organization:** Department of Forestry and Agriculture
- 2b. **Database contact:** Mr. David Brown, Department of Forestry and Agriculture, P.O. Box 2006, Herald Building, Corner Brook, Nfld. A2H 6J8
Phone: (709) 637-2342 *Facsimile:* (709) 637-2403
- 2c. **Access mechanisms:** Through the technical contact.
- 3a. **Parameters measured:**
 - boundaries of disturbed areas
- 3b. **Data acquisition methods:** Monitoring and mapping. Satellite imagery, aerial photography.
- 3c. **Geographic coverage:** Newfoundland - 30 percent complete at a scale of 1:25 000.
- 3d. **Geographic units of measure:** UTM coordinates.
- 3e. **Period of record:** 1989 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** 9 Track tape, 150 MB tape cartridge, 8mm exabyte tape.
- 4b. **Database computer environment:** PRIME 9955-II, SUN, ARC/INFO GIS.

5. **Restrictions and conditions:** None.
6. **Price information:** Charge per map section plus preparation time.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** List of codes used.
10. **Keywords:** Atlantic; Diseases; Forestry; Geographic Information System
11. **Additional information:** None.

Silviculture Treatment Areas

STA-0185-E

1. **Summary description:** To provide information on forest succession and management for the purposes of silviculture. Location and site description for all Crown Lands managed by Dept. of Forestry either as plantations or pre-commercial thinning areas (PCTs). More than 100,000 ha now included on Island, with 8 to 10,000 ha added each year.
- 2a. **Responsible organization:** Department of Forestry and Agriculture
- 2b. **Database contact:** Mr. Ivan Downton, Director of Silviculture, Department of Forestry and Agriculture, Herald Building, Box 2006, Corner Brook, Nfld. A2H 6J8
Phone: (709) 637-2284 Facsimile: (709) 634-4378
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - stand history
 - soil (type, drainage, slope, duff thickness, rooting depth, composition)
 - vegetation types
- 3b. **Data acquisition methods:** Monitoring. Reserves are monitored for growth and yield (via air photos) every year for first 5 years and every 5 years thereafter. Checked yearly for insects.
- 3c. **Geographic coverage:** Newfoundland.
- 3d. **Geographic units of measure:** Hectares.
- 3e. **Period of record:** 1975 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** Mainframe, GIS.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** *Forest Site Classification Manual*.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Forestry; Trees; Geographic Information System
11. **Additional information:**
 1. 100,000 ha of forest reserves remain under Government control and management until they are ready for harvesting, when they will be leased to private sector, then allowed to re-grow again. Some of these are plantations, other PCTs (pre-commercial thinning areas).
 2. The program began in mid-1970s and no reserve has yet been harvested. Estimates it will take 30 to 40 years for PCTs and 50 to 60 years for plantations to reach harvesting stage.



Department of Mines and Energy

Annual Census of Mines, Quarries and Sandpits

ACM-0163-E

1. **Summary description:** Contains the results of questionnaires returned to the Newfoundland Department of Mines and Energy by companies operating in the province. It consists of 33 files, each file is for a different commodity and contains general information on the annual mines census.
- 2a. **Responsible organization:** Department of Mines and Energy
- 2b. **Database contact:** Mr. Glenn Luther, Statistician, Mineral Resources Branch, Department of Mines and Energy, West Block, Confederation Building, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-6448 Facsimile: (709) 729-6782
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - mines census
- 3b. **Data acquisition methods:** Research and surveys. Data collected via questionnaires returned to the department by companies operating in the province.
- 3c. **Geographic coverage:** Western, central and eastern regions of Newfoundland and Labrador.
- 3d. **Geographic units of measure:** Mine site.
- 3e. **Period of record:** 1953 to present.
- 3f. **Update frequency:** Updated in 1990.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC.
5. **Restrictions and conditions:** Most information is confidential and for internal use only.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Extraction; Mining
11. **Additional information:** None.

Glacial Striation Database

GSD-0035-E

1. **Summary description:** Contains the glacial striations collected over several years by mappers.
- 2a. **Responsible organization:** Department of Mines and Energy
- 2b. **Database contact:** Mr. James Butler, Database Manager, Geological Survey Branch, Department of Mines and Energy, 95 Bonaventure Avenue, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-2172 Facsimile: (709) 729-3493
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - striae
 - year
 - geologist
 - elevation (northing and easting, NTS)

- 3b. Data acquisition methods:** Research and surveys. Field data (1987 to present), published and unpublished reports (dating back to 1948).
- 3c. Geographic coverage:** Newfoundland at a scale of 1:50 000.
- 3d. Geographic units of measure:** Northing and easting, 6 degree Universal Transverse Mercator Projection.
- 3e. Period of record:** 1987 to present.
- 3f. Update frequency:** Annually.
- 4a. Database storage format:** Diskette.
- 4b. Database computer environment:** Macintosh, PC, RBASE, DOUBLE HELIX.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Atlantic; Geomorphology; Ice
- 11. Additional information:** Database contains approximately 7,500 records.

Granite Lithogeochemistry (1) Newfoundland (2) Labrador

GLN-0060-E

- 1. Summary description:** Two databases comprising granite lithogeochemistry data for (1) Newfoundland and (2) Labrador. (1) Contains field and analytical data collected by project geologists since 1972. (2) Contains field and analytical data for granite rock samples systematically collected from plutons in eastern Labrador.
- 2a. Responsible organization:** Department of Mines and Energy
- 2b. Database contact:** Mr. James Butler, Database Manager, Geological Survey Branch, Department of Mines and Energy, 95 Bonaventure Avenue, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-2172 Facsimile: (709) 729-3493
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- granite
- 3b. Data acquisition methods:** Research and surveys. Data input by departmental staff. For Labrador sampling density is at about 1 sample per 4 km² or less, depending on the areal extent of the pluton.
- 3c. Geographic coverage:** (1) comprises Western, central and eastern regions of Newfoundland. (2) comprises Labrador.
- 3d. Geographic units of measure:** Scale 1:50 000, latitude and longitude, northing and easting, 6 degree Universal Transverse Mercator Projection.
- 3e. Period of record:** 1972 to 1989. For Labrador the period covers 1985 to 1988.
- 3f. Update frequency:** (1) Updated in 1989. (2) Updated in 1988.
- 4a. Database storage format:** 9 track tape, diskette.
- 4b. Database computer environment:** HP 9000/700, UNIX.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Atlantic; Geochemistry; Minerals
- 11. Additional information:** None.

Grenville Province Projects Database

GRE-0191-E

- 1. Summary description:** Contains field and analytical data, including majors, traces and norms (calculated) for all rock samples collected for projects conducted in the Grenville Province of Labrador.
- 2a. Responsible organization:** Department of Mines and Energy
- 2b. Database contact:** Mr. James Butler, Database Manager, Geological Survey Branch, Department of Mines and Energy, 95 Bonaventure Avenue, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-2172 Facsimile: (709) 729-3493
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- geology
- rock samples (including majors, traces and calculated norms)
- 3b. Data acquisition methods:** Research and surveys. Data input by departmental staff.
- 3c. Geographic coverage:** Labrador.
- 3d. Geographic units of measure:** Scale 1:50 000, latitude and longitude, northing and easting, 6 degree Universal Transverse Mercator Projection.
- 3e. Period of record:** 1979 to 1990.
- 3f. Update frequency:** Updated in 1990.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, REFLEX.
- 5. Restrictions and conditions:** Access is restricted.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Atlantic; Geology; Minerals
- 11. Additional information:** None.

Labrador Geochronology Database

LGD-0039-E

- 1. Summary description:** Contains information on the location and geological interpretation of published and unpublished geochronological age dates for Labrador.
- 2a. Responsible organization:** Department of Mines and Energy
- 2b. Database contact:** Ms. Loretta Crisby-Whittle, Geologist, Regional Mapping Section-Labrador, Newfoundland Department of Mines and Energy, 95 Bonaventure Avenue, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-2166 Facsimile: (709) 729-3493
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- geochronological age dates (unpublished, published)
- geological comments
- field observations
- 3b. Data acquisition methods:** Research and surveys. Extracted from periodicals and compilation of literature.
- 3c. Geographic coverage:** Labrador
- 3d. Geographic units of measure:** Scale 1:50 000, latitude and longitude, northing and easting, 6 degree Universal Transverse Mercator Projection.
- 3e. Period of record:** 1987 to 1992.
- 3f. Update frequency:** Ongoing, updated in 1993 - Version 2.
- 4a. Database storage format:** Hardcopy, diskette, 9 track tape.

- 4b. **Database computer environment:** PC, REFLEX.
5. **Restrictions and conditions:** None. Forms to be filled for mailing list and updates.
6. **Price information:** Charge varies: \$40.00 for paper, \$25.00 per diskette.
7. **Corresponding printed sources:** Full reference list available at end of database.
8. **Languages:** English.
9. **User aids available:** Introductory notes with descriptions of each field.
10. **Keywords:** Atlantic; Geology; Minerals
11. **Additional information:**
1. This database is also obtainable through: Mr. James Butler, Database Manager, Newfoundland Department of Mines and Energy, Phone: (709) 729-2172.
 2. The Newfoundland Geochronology Database for the island of Newfoundland is complimentary to this database and can be accessed by internal ID: NFLD/1881.

Labrador Lake Sediment (Detail) Database

LLD-0041-E

1. **Summary description:** Contains detailed lake sediment samples from several areas in western Labrador.
- 2a. **Responsible organization:** Department of Mines and Energy
- 2b. **Database contact:** Mr. James Butler, Database Manager, Geological Survey Branch, Department of Mines and Energy, 95 Bonaventure Avenue, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-2172 Facsimile: (709) 729-3493
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- lake sediment data
- 3b. **Data acquisition methods:** Research and surveys. The sample density is 1 sample per 6 km².
- 3c. **Geographic coverage:** Labrador
- 3d. **Geographic units of measure:** Scale 1:50 000, north and easting, 6 degree Universal Transverse Mercator Projection.
- 3e. **Period of record:** These data were collected between 1984 and 1987 and are available as open files.
- 3f. **Update frequency:** Updated in 1990.
- 4a. **Database storage format:** 9 track tape, diskette.
- 4b. **Database computer environment:** HP 9000/700, UNIX.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Hydrography; Lakes; Landscape
11. **Additional information:** None.

Labrador Mapping Database

LMD-0043-E

1. **Summary description:** Consists of five files for surveys in the Grenville Province, Ashuanipi Complex and Uqjoktok River areas. Each file contains field and analytical data for all rock samples collected between 1978 and 1988 during studies in Labrador.
- 2a. **Responsible organization:** Department of Mines and Energy
- 2b. **Database contact:** Mr. James Butler, Database Manager, Geological Survey Branch, Department of Mines and Energy,

95 Bonaventure Avenue, P.O. Box 8700, St. John's, Nfld. A1B 4J6

Phone: (709) 729-2172 Facsimile: (709) 729-3493

- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- rock geochemistry
- 3b. **Data acquisition methods:** Reports, field studies. Data input by departmental staff.
- 3c. **Geographic coverage:** Labrador.
- 3d. **Geographic units of measure:** Scale 1:50 000, latitude and longitude, north and easting, 6 degree Universal Transverse Mercator Projection.
- 3e. **Period of record:** 1978 to 1988.
- 3f. **Update frequency:** As field studies completed.
- 4a. **Database storage format:** Hardcopy, maps.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Geology; Minerals
11. **Additional information:** None.

Labrador Quaternary Geochem Database

LQG-0044-E

1. **Summary description:** Contains both field and analytical data from four areas of detailed sampling of tills and soils in Labrador. These areas are Letitia Lake, Melody Lake, Moran Lake and Strange Lake.
- 2a. **Responsible organization:** Department of Mines and Energy
- 2b. **Database contact:** Mr. James Butler, Database Manager, Geological Survey Branch, Department of Mines and Energy, 95 Bonaventure Avenue, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-2172 Facsimile: (709) 729-3493
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- tills
- soils
- 3b. **Data acquisition methods:** Research and surveys. Data input by departmental staff.
- 3c. **Geographic coverage:** Labrador
- 3d. **Geographic units of measure:** Scale 1:50 000, north and easting, 6 degree Universal Transverse Mercator Projection.
- 3e. **Period of record:** 1984 to 1988.
- 3f. **Update frequency:** Updated in 1988.
- 4a. **Database storage format:** 9 track tape, diskette.
- 4b. **Database computer environment:** HP 9000/700, UNIX.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Geology; Soils
11. **Additional information:** None.

Labrador Soil Surveys Database

LSS-0045-E

1. **Summary description:** Contains both field and analytical data for soil sample surveys conducted in various locations in Labrador.
- 2a. **Responsible organization:** Department of Mines and Energy
- 2b. **Database contact:** Mr. James Butler, Database Manager, Geological Survey Branch, Department of Mines and Energy, 95 Bonaventure Avenue, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-2172 *Facsimile:* (709) 729-3493
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- soil survey sampling data
- 3b. **Data acquisition methods:** Research and surveys. Data input by departmental staff.
- 3c. **Geographic coverage:** Labrador.
- 3d. **Geographic units of measure:** Scale 1:50 000, northing and easting, 6 degree Universal Transverse Mercator Projection.
- 3e. **Period of record:** 1986 to present.
- 3f. **Update frequency:** As updates made available.
- 4a. **Database storage format:** 9 track tape, diskette.
- 4b. **Database computer environment:** HP 9000/700, UNIX
5. **Restrictions and conditions:** Access is restricted.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Pedology; Soils
11. **Additional information:**
 1. Soil survey sites included: western Labrador near Sawbill Lake; from a grid west of Howell's River in the Kivivic Lake area; from a grid east of Schefferville, Quebec, near Iron Arm.
 2. For the Schefferville grid, the initial grid and sampling was conducted in 1981 and was extended to the North and South in 1985 when additional samples were collected.

Labrador Stream Sediment Database

LST-0049-E

1. **Summary description:** Contains both field and analytical data for stream sediment samples collected in northern Labrador as part of the National Geochemical Reconnaissance Program (NGR).
- 2a. **Responsible organization:** Department of Mines and Energy
- 2b. **Database contact:** Mr. James Butler, Database Manager, Geological Survey Branch, Department of Mines and Energy, 95 Bonaventure Avenue, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-2172 *Facsimile:* (709) 729-3493
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- stream sediments
- 3b. **Data acquisition methods:** Research and surveys. Data input by departmental staff.
- 3c. **Geographic coverage:** Northern Labrador north of latitude 68.5 degrees.
- 3d. **Geographic units of measure:** Scale 1:50 000, latitude and longitude, northing and easting, 6 degree Universal Transverse Mercator Projection.

- 3e. **Period of record:** 1986 to present.
- 3f. **Update frequency:** Not applicable.
- 4a. **Database storage format:** 9 track tape, diskette.
- 4b. **Database computer environment:** HP 9000/700, UNIX.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Hydrology; Rivers; Water
11. **Additional information:** None.

Lithogeochemistry (Volcanic) Database

LVD-0051-E

1. **Summary description:** Database of geochemical data for rock samples for the island of Newfoundland. To date contains data for 2,025 samples collected by 30 different geologists. Location data for each sample is also included along with data for geological units and rock type of the samples.
- 2a. **Responsible organization:** Department of Mines and Energy
- 2b. **Database contact:** Mr. James Butler, Database Manager, Geological Survey Branch, Department of Mines and Energy, 95 Bonaventure Avenue, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-2172 *Facsimile:* (709) 729-3493
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - measured geochemical data (rock sample, major, trace, rare earth element)
 - analysis (method, analytical laboratory, year)
 - sample (description, lithology, major, minor, subunit - group or complex/formulation/member, location, owner, age - Cambrian or Ordovician)
- 3b. **Data acquisition methods:** Compilation of data from published and unpublished sources. Newfoundland government data and thesis data.
- 3c. **Geographic coverage:** Newfoundland at a scale of 1:50 000.
- 3d. **Geographic units of measure:** Northing and easting, UTM coordinates, 6 degree Universal Transverse Mercator Projection.
- 3e. **Period of record:** 1966 to present.
- 3f. **Update frequency:** Last updated in 1993.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, RBASE.
5. **Restrictions and conditions:** None.
6. **Price information:** There is a charge (see 11).
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** User's manual and computer application for viewing and reporting/exporting data.
10. **Keywords:** Atlantic; Geochemistry; Minerals
11. **Additional information:**
 1. Database to be released on disk in 1994 in the form of a run-time module application, which will be accompanied by a user manual. Plans are for continuing release of updated versions.
 2. There will be a charge for database released on disk with end-use application and user manual; approximately \$25.00
 3. There are plans for a separate database for Labrador. However this will be in the future and is dependent on funds being made available.

Newfoundland and Labrador Beach Permit Information Database

NLB-0052-E

1. **Summary description:** Contains information on the inventory of beaches in Newfoundland and Labrador. The data are used to monitor the removal of material from beaches on a per-permit or total removal basis.
- 2a. **Responsible organization:** Department of Mines and Energy
- 2b. **Database contact:** Mr. Fred Kirby, Project Geologist, Mineral Resource Branch, Department of Mines and Energy, West Block, Confederation Building, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-6447 *Facsimile:* (709) 729-6782
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - key information (beach, elevation, composition, length, width)
- 3b. **Data acquisition methods:** Monitoring, research and surveys. Field survey results.
- 3c. **Geographic coverage:** Western, central and eastern regions of Newfoundland and southern Labrador.
- 3d. **Geographic units of measure:** Municipality, electoral district. Northing and easting, 6 degree Universal Transverse Mercator Projection.
- 3e. **Period of record:** 1990 to present. These data are collected on an ongoing basis in coordination with other projects and inspections.
- 3f. **Update frequency:** Updated as required.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, REFLEX.
5. **Restrictions and conditions:** Access is restricted.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Beach Permits.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Coastal zone; Minerals; Mining
11. **Additional information:** This database is set up as a temporary database for the collection of beach data, which is used in the management of beach removal throughout the province. When all the beaches have been re-surveyed and the files updated, it is hoped to integrate this data into the Quarry Materials Database.

Newfoundland Bedrock Aggregate Database

NBA-0053-E

1. **Summary description:** Contains the bedrock aggregate samples collected along the road networks east of Deer Lake, Newfoundland. It contains information on potential aggregate quarry sites near major centres and roads.
- 2a. **Responsible organization:** Department of Mines and Energy
- 2b. **Database contact:** Mr. James Butler, Database Manager, Geological Survey Branch, Department of Mines and Energy, 95 Bonaventure Avenue, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-2172 *Facsimile:* (709) 729-3493
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - quarry sites
 - bedrock aggregate samples
- 3b. **Data acquisition methods:** Research and surveys. Data input by departmental staff.

- 3c. **Geographic coverage:** Central and eastern regions of Newfoundland.
- 3d. **Geographic units of measure:** Scale 1:50 000, northing and easting, 6 degree Universal Transverse Mercator Projection.
- 3e. **Period of record:** 1989 to present.
- 3f. **Update frequency:** Updated in 1990.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC, REFLEX.
5. **Restrictions and conditions:** Access is restricted.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Extraction; Geology
11. **Additional information:** None.

Newfoundland Carbon 14 Database

NCB-0055-E

1. **Summary description:** Records the Carbon 14 radio age dates for samples collected within the province. Archaeological dates are not currently included in this database.
- 2a. **Responsible organization:** Department of Mines and Energy
- 2b. **Database contact:** Mr. Martin Batterson, Geological Survey Branch, Department of Mines and Energy, 95 Bonaventure Avenue, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-3419 *Facsimile:* (709) 729-3493
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - site (location, number)
 - date
 - elevation
 - collector
 - material type
- 3b. **Data acquisition methods:** Research and surveys. Data collected and input by departmental staff.
- 3c. **Geographic coverage:** Newfoundland and Labrador at a scale of 1:50 000.
- 3d. **Geographic units of measure:** Northing and easting, 6 degree Universal Transverse Mercator Projection.
- 3e. **Period of record:** 1987 to present. The GSC dated material is included. Archaeological dates are not currently included in this database.
- 3f. **Update frequency:** Irregularly, every two years.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** Macintosh, PC, EXCEL.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Geology; Minerals
11. **Additional information:** None.

Newfoundland Drill Core Assay Database

NDC-0192-E

1. **Summary description:** Complements the Drill Core Index Database and includes summaries of assays performed on drill core samples in storage libraries owned by the Department of Mines and Energy.
- 2a. **Responsible organization:** Department of Mines and Energy

- 2b. Database contact:** Mr. Alvin Harris, Project Geologist, Mineral Resource Branch, Department of Mines and Energy, West Block, Confederation Building, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 792-5833 *Facsimile:* (709) 729-6782
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - physical (hole number, company number, assay values, length of interval, commodity, number of assays)
- 3b. Data acquisition methods:** Research and surveys. Data input by departmental staff.
- 3c. Geographic coverage:** Western, central and eastern regions of Newfoundland and Labrador.
- 3d. Geographic units of measure:** Scale 1:50 000, northing and easting, 6 degree Universal Transverse Mercator Projection.
- 3e. Period of record:** 1976 to 1990.
- 3f. Update frequency:** Updated in 1990.
- 4a. Database storage format:** Diskette.
- 4b. Database computer environment:** PC, REFLEX.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Atlantic; Geology; Minerals
- 11. Additional information:** This database has been discontinued.

Newfoundland Drill Core Index

NDC-0056-E

- 1. Summary description:** Contains information on all drill core in the Newfoundland Department of Mines and Energy core storage libraries and contains core from most diamond drill programs conducted in the province by government and industry.
- 2a. Responsible organization:** Department of Mines and Energy
- 2b. Database contact:** Mr. Alvin Harris, Project Geologist, Mineral Resource Branch, Department of Mines and Energy, West Block, Confederation Building, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-5833 *Facsimile:* (709) 729-6782
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - drill core data (hole location, length, inclination, size of core, storage site, rack location)
- 3b. Data acquisition methods:** Research and surveys. Data input by departmental staff.
- 3c. Geographic coverage:** Western, central and eastern regions of Newfoundland and Labrador.
- 3d. Geographic units of measure:** Scale 1:50 000, northing and easting, 6 degree Universal Transverse Mercator Projection.
- 3e. Period of record:** 1976 to 1991.
- 3f. Update frequency:** Updated in 1991.
- 4a. Database storage format:** Diskette.
- 4b. Database computer environment:** PC, REFLEX.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Atlantic; Geology; Minerals
- 11. Additional information:** None.

Newfoundland Geochronology Database

NGD-0058-E

- 1. Summary description:** A compilation of over 500 isotopic determinations for the island of Newfoundland. All of the dates in the public domain, whether published or unpublished, are included. Each date is presented as a single record with supplementary information.
- 2a. Responsible organization:** Department of Mines and Energy
- 2b. Database contact:** Mr. Norman Mercer, Geological Survey Branch, Department of Mines and Energy, 95 Bonaventure Avenue, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-6193 *Facsimile:* (709) 729-3493
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - major unit
 - author
 - sample
 - location
 - rock type
 - interpretation
- 3b. Data acquisition methods:** Research. Published and unpublished literature.
- 3c. Geographic coverage:** Newfoundland at a scale of 1:50 000.
- 3d. Geographic units of measure:** Latitude and longitude, northing and easting, 6 degree Universal Transverse Mercator Projection.
- 3e. Period of record:** 1960 to 1991.
- 3f. Update frequency:** Updated in 1989, 1991.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** Macintosh, PC, REFLEX, DOUBLE HELIX.
- 5. Restrictions and conditions:** None.
- 6. Price information:** The database may be purchased for \$30.00.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** Explanatory notes on variables and reference list. See the *README* instructions for using the diskettes.
- 10. Keywords:** Atlantic; Geology; Minerals
- 11. Additional information:** None.

Newfoundland Lake Sediment Database

NLS-0184-E

- 1. Summary description:** Initially, to provide data for mineral appraisal and exploration programs. Now, additionally to provide background information on the geochemical landscape.
- 2a. Responsible organization:** Department of Mines and Energy
- 2b. Database contact:** Mr. James Butler, Database Manager, Geological Survey of Newfoundland, Department of Mines and Energy, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-2172 *Facsimile:* (709) 729-3493
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - grab samples of profundal lake sediment includes:
 - field observations (lake area, water depth at sample site, water level, vegetation surrounding lake, visible human impacts)
 - chemical analysis (loss on ignition at 450°C)
 - ion-selective electrode (total content of F)

- instrumental neutron activation (Na, Sc, Cr, Fe, Co, Ni, Zn, As, Br, Mo, Sb, Cs, Ba, La, Ce, Sm, Eu, Tb, Yb, Hf, Ta, W, Au, Th, and U)
 - acid-extractable content (4M HNO₃ - 1 M HCL, of Mn, Fe, Co, Ni, Cu, Zn, Ag and Pb)
- 3b. Data acquisition methods:** Field surveys on lake sediments throughout the province. Sample density - 1 sample/7km² (5.1 Mb of data). Upper 20-100 cm of organic sediment collected by free-fall corer from helicopter pontoon. Samples homogenized and analyzed for 44 elements. GIS capacity being added.
- 3c. Geographic coverage:** 17,659 sites covering all of Newfoundland outside national parks.
- 3d. Geographic units of measure:** Latitude and longitude, northing and easting, 6 degree Universal Transverse Mercator Projection.
- 3e. Period of record:** 1972 to present.
- 3f. Update frequency:** See 11.
- 4a. Database storage format:** Hardcopy, 9 track tape, diskette.
- 4b. Database computer environment:** PC, GIS.
- 5. Restrictions and conditions:** None.
- 6. Price information:** There is a charge (see 11).
- 7. Corresponding printed sources:** Davenport, P.H. et al. *Geochemical Mapping in Newfoundland and Labrador: Its Role in Establishing Geochemical Baselines for the Measurement of Environmental Change*, 1992. Current Research. Newfoundland Department of Mines and Energy: Geological Survey Branch Report 92-1.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Atlantic; Geology; Minerals; Geographic Information System
- 11. Additional information:**
1. Total element content (in archived sample material) of Li, Be, Mg, Al, P, K, Ca, Ti, V, Mn, Cu, Ga, Sr, Y, Zr, Nb, Mo, Cd, Dy and Pb are being determined by ICP-emission spectrometry, and HNO₃ - extractable Hg. Results expected to be released in 1994.
 2. Data as ASCII files; \$25.00 for each 1:250 000 NTS sheet, \$300.00 for entire set (17,659 sites).
 3. One-time sample collection with data for additional chemical elements added periodically and some follow-up studies.
 4. More recent detailed surveys of lakes around St. John's (grab samples and cores by T.K. Christopher) to assess human impact on sediment geochemistry, and lake-sediment cores in south-central Newfoundland (by S. Vardy) to determine spatial and temporal variation in areas of minimal human disturbance.

Newfoundland Mineral Occurrence Data System 1 - Mineral Inventory Reports

NFM-0062-E

- 1. Summary description:** Inventory of most mineral occurrences in Newfoundland and Labrador. This is a more detailed version of the information in the MODS/PC (Part 1) database (see 11).
- 2a. Responsible organization:** Department of Mines and Energy
- 2b. Database contact:** Mr. Greg Stapleton, Geological Survey Branch, Department of Mines and Energy, 95 Bonaventure Avenue, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-6071 Facsimile: (709) 729-3493
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - deposit (location and access, description, structure)
 - history (exploration and development, production and/or reserves)

- mineralogical composition
- nature of mineralization and genesis
- host rocks
- structural features and tectonic setting
- metal/mineral content
- expression (geophysical, geochemical)
- references

- 3b. Data acquisition methods:** Research and surveys. Mineral exploration company assessment, reports and surveys, government reports and surveys and academic reports and surveys.
- 3c. Geographic coverage:** Western, central and eastern regions of Newfoundland and major parts of Labrador.
- 3d. Geographic units of measure:** Latitude and longitude, northing and easting, 6 degree Universal Transverse Mercator Projection.
- 3e. Period of record:** 1972 to present.
- 3f. Update frequency:** Continually.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, WORDPERFECT 5.0.
- 5. Restrictions and conditions:** None.
- 6. Price information:** Photocopy charges.
- 7. Corresponding printed sources:** Mineral occurrence and maps.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Atlantic; Geology; Minerals
- 11. Additional information:**
1. This database consists of 5 to 10 page reports on mineral occurrences and deposits in Newfoundland and Labrador. The reports include information (in some detail) on topics listed (in 4a) and are stored as WORDPERFECT files on diskette. Paper copies of the files are available only.
 2. The Newfoundland Mineral Occurrence Data System 2 - MODS/PC database presents a summary of the information of this (MODS1) database. See data centre contact for further information.

Newfoundland Mineral Rights Database

NFM-0063-E

- 1. Summary description:** Contains all the current information used to record a mineral claim in Newfoundland.
- 2a. Responsible organization:** Department of Mines and Energy
- 2b. Database contact:** Mr. Noel Gover, Mineral Rights Manager, Department of Mines and Energy, Mineral Resource Branch, West Block, Confederation Building, St. John's, Nfld. A1B 4J6
Phone: (709) 729-6418 Facsimile: (709) 729-6782
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - mineral claims
 - number of claims
 - monies spent
 - reporting dates
 - issuance dates
- 3b. Data acquisition methods:** Research and surveys.
- 3c. Geographic coverage:** Western, central and eastern regions of Newfoundland and Labrador.
- 3d. Geographic units of measure:** Not applicable.
- 3e. Period of record:** Not applicable.
- 3f. Update frequency:** Updated in 1992.
- 4a. Database storage format:** Diskette.
- 4b. Database computer environment:** PC, DBASE.

5. **Restrictions and conditions:** Access is restricted.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** User's manual.
10. **Keywords:** Atlantic; Minerals; Mining
11. **Additional information:** None.

Newfoundland Quaternary Mapping Database

NQM-0037-E

1. **Summary description:** Database is relational and consists of a discreet data file for each of the mapping projects of the Terrain Sciences Section. It contains site data collected by mappers beginning in 1987.
- 2a. **Responsible organization:** Department of Mines and Energy
- 2b. **Database contact:** Mr. David Liverman, Geological Survey Branch, Department of Mines and Energy, 95 Bonaventure Avenue, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-4014 Facsimile: (709) 729-3493
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- site information (striations and sediment type, ice flow directions)
- 3b. **Data acquisition methods:** Research and surveys. Data input by departmental staff.
- 3c. **Geographic coverage:** Western, central and eastern regions of Newfoundland and Labrador.
- 3d. **Geographic units of measure:** Scale 1:50 000, northing and easting, 6 degree Universal Transverse Mercator Projection.
- 3e. **Period of record:** 1987 to 1991.
- 3f. **Update frequency:** Updated in 1991.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** Macintosh, DOUBLE HELIX.
5. **Restrictions and conditions:** Access is restricted.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Geology; Minerals
11. **Additional information:** None.

Newfoundland Sand and Gravel Aggregate Database

NSG-0064-E

1. **Summary description:** Contains information about the sand and gravel resources of the province. The database is divided into 194 files based on the National Topographic System for the area.
- 2a. **Responsible organization:** Department of Mines and Energy
- 2b. **Database contact:** Mr. James Butler, Database Manager, Geological Survey Branch, Department of Mines and Energy, 95 Bonaventure Avenue, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-2172 Facsimile: (709) 729-3493
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- sample site
- field and lab sieve results
- petrographic number

- 3b. **Data acquisition methods:** Research and surveys. Data input by departmental staff.
- 3c. **Geographic coverage:** Western, central and eastern regions of Newfoundland and Labrador.
- 3d. **Geographic units of measure:** Scale 1:50 000, northing and easting, 6 degree Universal Transverse Mercator Projection.
- 3e. **Period of record:** 1978 to 1990.
- 3f. **Update frequency:** Updated in 1990.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Extraction; Geology
11. **Additional information:** None.

Newfoundland Shale Database

NSD-0065-E

1. **Summary description:** Field and analytical data collected in 1981, 1982, 1983 from major shale occurrence in central Newfoundland and parts of eastern and western Newfoundland.
- 2a. **Responsible organization:** Department of Mines and Energy
- 2b. **Database contact:** Mr. James Butler, Database Manager, Geological Survey Branch, Department of Mines and Energy, 95 Bonaventure Avenue, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-2172 Facsimile: (709) 729-3493
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- shale
- 3b. **Data acquisition methods:** Research and surveys. Data input by departmental staff.
- 3c. **Geographic coverage:** Western, central and eastern regions of Newfoundland.
- 3d. **Geographic units of measure:** Scale 1:50 000, latitude and longitude, northing and easting, 6 degree Universal Transverse Mercator Projection.
- 3e. **Period of record:** 1981 to 1983.
- 3f. **Update frequency:** Updated in 1983.
- 4a. **Database storage format:** Hardcopy, 9 track tape, diskette.
- 4b. **Database computer environment:** HP 9000/700, UNIX.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Geology; Minerals
11. **Additional information:**
 1. Data collected in 1981, 1982 and 1983 have been released as an open file (NFLD(1317)) in 1983. The other parts of the file have not been officially released.
 2. Additional data, collected in 1985, have yet to be added to the file.

Newfoundland Soil Survey Database

NSS-0066-E

1. **Summary description:** Contains field observations and analytical results of soil samples collected in 1983 and 1984. The

data were collected from two areas of Newfoundland, the Catalina area, and near Indian Bay Pond, central Newfoundland.

- 2a. **Responsible organization:** Department of Mines and Energy
- 2b. **Database contact:** Mr. James Butler, Database Manager, Geological Survey Branch, Department of Mines and Energy, 95 Bonaventure Avenue, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-2172 *Facsimile:* (709) 729-3493
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- soil sample parameters
- 3b. **Data acquisition methods:** Research and surveys. Data input by departmental staff.
- 3c. **Geographic coverage:** Central and eastern regions of Newfoundland.
- 3d. **Geographic units of measure:** Scale 1:50 000, northing and easting, 6 degree Universal Transverse Mercator Projection.
- 3e. **Period of record:** 1983 to 1984.
- 3f. **Update frequency:** Updated in 1987.
- 4a. **Database storage format:** 9 track tape, diskette.
- 4b. **Database computer environment:** Mainframe, UNIX.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Pedology; Soils
11. **Additional information:** None.

Newfoundland Stream Sediment Database

NST-0067-E

1. **Summary description:** Data file contains field observations and analytical results of stream sediment survey samples collected 1973 and 1987.
- 2a. **Responsible organization:** Department of Mines and Energy
- 2b. **Database contact:** Mr. James Butler, Database Manager, Geological Survey Branch, Department of Mines and Energy, 95 Bonaventure Avenue, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-2172 *Facsimile:* (709) 729-3493
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- stream sediments
- 3b. **Data acquisition methods:** Research and surveys. Data input by departmental staff.
- 3c. **Geographic coverage:** Central and eastern regions of Newfoundland.
- 3d. **Geographic units of measure:** Scale 1:50 000, northing and easting, 6 degree Universal Transverse Mercator Projection.
- 3e. **Period of record:** 1973 to present.
- 3f. **Update frequency:** Updated in 1990.
- 4a. **Database storage format:** 9 track tape, diskette.
- 4b. **Database computer environment:** PC.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Hydrology; Rivers; Water
11. **Additional information:** The data were collected from numerous streams in selected areas of Newfoundland, including the

Port-au-Port Peninsula, St. George's Carboniferous Basin, Burlington Peninsula, some areas on the Avalon, in central and western Newfoundland.

Quaternary and Geochemistry South West Newfoundland

QGN-0068-E

1. **Summary description:** Contains field and analytical data from a study of Quaternary features located in south west Newfoundland, during 1985 and 1986 field season.
- 2a. **Responsible organization:** Department of Mines and Energy
- 2b. **Database contact:** Mr. James Butler, Database Manager, Geological Survey Branch, Department of Mines and Energy, 95 Bonaventure Avenue, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-2172 *Facsimile:* (709) 729-3493
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- particle size data
- pebble types
- geochemical data
- 3b. **Data acquisition methods:** Research and surveys. Data input by departmental staff.
- 3c. **Geographic coverage:** Southwest Newfoundland at a scale of 1:50 000.
- 3d. **Geographic units of measure:** Northing and easting, 6 degree Universal Transverse Mercator Projection.
- 3e. **Period of record:** 1985 to 1986.
- 3f. **Update frequency:** Updated in 1989.
- 4a. **Database storage format:** 9 track tape, diskette.
- 4b. **Database computer environment:** HP 9000/700, UNIX.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Geochemistry; Landscape
11. **Additional information:** None.

Regional Aeromagnetic Data (1) Newfoundland - (2) Labrador

RAD-0070-E

1. **Summary description:** Two databases comprising aeromagnetic data for (1) Newfoundland and (2) Labrador. (1) Consists of a series of files containing aeromagnetic flight profiles reconstructed by the Geological Survey of Canada (GSC) from 1:63 360 scale hardcopy plots by GSC during the years 1953 to 1971. (2) Consists of a series of files containing aeromagnetic flight profiles providing complete coverage of Labrador.
- 2a. **Responsible organization:** Department of Mines and Energy
- 2b. **Database contact:** Mr. James Butler, Database Manager, Geological Survey Branch, Department of Mines and Energy, 95 Bonaventure Avenue, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-2172 *Facsimile:* (709) 729-3493
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- aeromagnetic data
- 3b. **Data acquisition methods:** Research and surveys.
- 3c. **Geographic coverage:** Western, central and eastern regions of Newfoundland.

- 3d. **Geographic units of measure:** Scale 1:50 000, latitude and longitude, northing and easting, 6 degree Universal Transverse Mercator Projection.
- 3e. **Period of record:** 1953 to 1990. Newfoundland's period of record is from 1953 to 1971. Labrador covers the period 1988 to 1990.
- 3f. **Update frequency:** Both databases updated in 1990.
- 4a. **Database storage format:** 9 track tape, diskette.
- 4b. **Database computer environment:** HP 9000/700, UNIX.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Geodesy; Minerals
11. **Additional information:** For Newfoundland, profiles are arranged in order of decreasing west longitude. Editing, merging and ordering was done by Newfoundland Department of Mines and Energy during 1989/90.

Regional Bouguer Gravity Database

RBG-0071-E

1. **Summary description:** Data obtained from the Geological Survey of Canada (GSC) and is a subset of their Canadian database, windowed to the region of interest to the province. The data accuracy varies with location and vintage of survey.
- 2a. **Responsible organization:** Department of Mines and Energy
- 2b. **Database contact:** Mr. James Butler, Database Manager, Geological Survey Branch, Department of Mines and Energy, 95 Bonaventure Avenue, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-2172 Facsimile: (709) 729-3493
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- gravity measurements
- 3b. **Data acquisition methods:** Research and surveys. Data input by departmental staff.
- 3c. **Geographic coverage:** Western, central and eastern regions of Newfoundland.
- 3d. **Geographic units of measure:** Scale 1:50 000, latitude and longitude, northing and easting, 6 degree Universal Transverse Mercator Projection.
- 3e. **Period of record:** 1955 to 1989.
- 3f. **Update frequency:** Updated in 1989.
- 4a. **Database storage format:** 9 Track tape.
- 4b. **Database computer environment:** HP 9000/700, UNIX.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Geodesy; Minerals
11. **Additional information:** None.



Department of Tourism and Culture

Domestic Travel Survey

DTS-0158-E

1. **Summary description:** An examination of in-province travel.
- 2a. **Responsible organization:** Department of Tourism and Culture
- 2b. **Database contact:** Ms. Joan Quigley, Development Analyst, Planning and Research, Department of Tourism and Culture, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-2975 Facsimile: (709) 729-0870
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- trip (origin, purpose, expenditures, party size, accommodation used)
- age
- household income
- 3b. **Data acquisition methods:** Telephone and mail surveys.
- 3c. **Geographic coverage:** Newfoundland.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1990 to present.
- 3f. **Update frequency:** Not applicable.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, SPSS.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Survey reports.
8. **Languages:** English.
9. **User aids available:** Survey reports.
10. **Keywords:** Atlantic; Tourism; Transportation
11. **Additional information:** None.

Marine Atlantic Ferry Statistics

MAF-0155-E

1. **Summary description:** Passenger and private registered vehicle (PRV) volumes for the province by month and port.
- 2a. **Responsible organization:** Department of Tourism and Culture
- 2b. **Database contact:** Mr. Roger Haynes, Statistician/Analyst, Planning and Research, Department of Tourism and Culture, P.O. Box 8700, St. John's, Nfld.
Phone: (709) 729-2976 Facsimile: (709) 729-0870
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- entering and exiting
- volumes (passenger, PRV - private registered vehicle volumes)
- 3b. **Data acquisition methods:** Monthly traffic reports from Marine Atlantic.
- 3c. **Geographic coverage:** Newfoundland.
- 3d. **Geographic units of measure:** Marine ports.
- 3e. **Period of record:** 1987 to present.
- 3f. **Update frequency:** Monthly.

- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, LOTUS 123.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** Marine Atlantic Traffic reports.
10. **Keywords:** Marine; Tourism; Transportation
11. **Additional information:** None.

Non-Resident Air Exit Surveys

NRA-0153-E

1. **Summary description:** An examination of travel characteristics of non-resident air visitors to Newfoundland.
- 2a. **Responsible organization:** Department of Tourism and Culture
- 2b. **Database contact:** Mr. Roger Haynes, Statistician/Analyst, Planning and Research, Department of Tourism and Culture, P.O. Box 8700, St. John's, Nfld.
Phone: (709) 729-2976 *Facsimile:* (709) 729-0870
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - trip (origin, purpose, expenditures, party size, accommodation used)
 - age
 - household income
- 3b. **Data acquisition methods:** Personal interviews.
- 3c. **Geographic coverage:** Newfoundland.
- 3d. **Geographic units of measure:** Tourism regions.
- 3e. **Period of record:** 1982, 1984, 1987, 1993.
- 3f. **Update frequency:** Every 3 to 5 years.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, SPSS.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Survey reports.
8. **Languages:** English.
9. **User aids available:** Survey reports.
10. **Keywords:** Atlantic; Aviation; Transportation
11. **Additional information:** None.

Non-Resident Auto Exit Surveys

NRA-0152-E

1. **Summary description:** An examination of travel characteristics of non-resident auto travellers to Newfoundland.
- 2a. **Responsible organization:** Department of Tourism and Culture
- 2b. **Database contact:** Mr. Roger Haynes, Statistician/Analyst, Planning and Research, Department of Tourism and Culture, P.O. Box 8000, St. John's, Nfld. A1B 4J6
Phone: (709) 729-2976 *Facsimile:* (709) 729-0870
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - trip (origin, purpose, expenditures, party size, accommodation used)
 - age
 - household income
- 3b. **Data acquisition methods:** Mail back surveys
- 3c. **Geographic coverage:** Newfoundland.

- 3d. **Geographic units of measure:** Tourism regions.
- 3e. **Period of record:** 1982, 1983, 1985, 1986, 1988, 1990, 1993.
- 3f. **Update frequency:** Every 2 to 3 years.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, SPSS.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Survey reports.
8. **Languages:** English.
9. **User aids available:** Survey reports.
10. **Keywords:** Atlantic; Tourism; Transportation
11. **Additional information:** None.

Provincial Park Statistics

PPS-0157-E

1. **Summary description:** Summary statistics for Newfoundland provincial parks.
- 2a. **Responsible organization:** Department of Tourism and Culture
- 2b. **Database contact:** Mr. Rockey Higden, Statistical Officer, Parks Division, Department of Tourism and Culture, P.O. Box 8700, St. John's, Nfld. A1B 4J6
Phone: (709) 729-0412 *Facsimile:* (709) 729-0870
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - visits
 - camper nights
 - occupancy rates
 - equipment utilized
- 3b. **Data acquisition methods:** Camping permits, daily tally sheets. Data input by departmental staff.
- 3c. **Geographic coverage:** Newfoundland.
- 3d. **Geographic units of measure:** Region, park.
- 3e. **Period of record:** 1990 to present. 1990 data on computer, pre 1990 data kept manually
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE, CLIPPER.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Households; Tourism
11. **Additional information:** None.

Provincial Park User Survey

PPU-0156-E

1. **Summary description:** An examination of various characteristics of Newfoundland park users.
- 2a. **Responsible organization:** Department of Tourism and Culture
- 2b. **Database contact:** Mr. Roger Haynes, Statistician/Analyst, Planning and Research, Department of Tourism and Culture, P.O. Box 8700, St. John's, Nfld.
Phone: (709) 729-2976 *Facsimile:* (709) 729-0870
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - group (origin, composition, age, desired activities)

- trip (type, purpose, previous visits, trends in visits)
- facilities and services
- 3b. **Data acquisition methods:** Mail back survey. Data input by departmental staff.
- 3c. **Geographic coverage:** Newfoundland.
- 3d. **Geographic units of measure:** Parks.
- 3e. **Period of record:** 1990 to present.
- 3f. **Update frequency:** Not applicable.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, SPSS.
- 5. **Restrictions and conditions:** None.
- 6. **Price information:** No charge.
- 7. **Corresponding printed sources:** Survey reports.
- 8. **Languages:** English.
- 9. **User aids available:** Survey reports.
- 10. **Keywords:** Households; Protected areas; Provincial parks
- 11. **Additional information:** None.



Department of Transportation

Trans-Labrador Highway Environmental Study

TLH-0072-E

1. **Summary description:** Environmental assessments requirements for road construction. The assessments incorporate the following studies: aquatic, wildlife, native resource, socio-economic and tourism, and archaeological studies.
- 2a. **Responsible organization:** Department of Transportation
- 2b. **Database contact:** Mr. Roger Pottle, Department of Transportation, Confederation Building, St. John's, Nfld. A1C 5T7
Phone: (709) 729-5379 Facsimile: (709) 729-0283
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - physical (land use, resource use, archaeological parameters, wildlife boundaries)
 - biological (various biological studies)
- 3b. **Data acquisition methods:** Research and surveys. Telemetry studies, electro-seining, literature research, archeological surveying.
- 3c. **Geographic coverage:** Study area: between Northwest River and Labrador West.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1985 to 1987.
- 3f. **Update frequency:** Not updated.
- 4a. **Database storage format:** Hardcopy, approximately 1,000 pages.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** Cost of photocopy.
7. **Corresponding printed sources:** Environmental Impact Assessment Statement appendix.
8. **Languages:** English. Native resource study done in Inumeoin.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Transportation; Vehicles
11. **Additional information:** Follow-up work done on wildlife studies (main focus: caribou).



Newfoundland and Labrador Climate Advisory Committee

Non-standard Climate Data Sets for Newfoundland and Labrador

NSC-0182-E

1. **Summary description:** To provide an inventory of historical weather data not archived by AES. Unpublished report to Newfoundland and Labrador Climate Advisory Committee listing 150 data sets in private collections and personal files, mostly not available to the public. For most sets the following is listed: type and description of data, location and frequency of observations, duration of record, type of instrumentation, format of data, source for data.
- 2a. **Responsible organization:** Newfoundland and Labrador Climate Advisory Committee
- 2b. **Database contact:** Mr. Stuart Porter, Newfoundland and Labrador Climate Advisory Committee, Atmospheric Environment Service, Box 21130, St. John's, Nfld. A1A 5B2
Phone: (709) 772-4695 Facsimile: (709) 772-2593
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - temperature (air, soil, inland water, marine water)
 - wind
 - precipitation
 - icing
 - visibility
 - weather and cloud
 - radiation
 - snow cover
- 3b. **Data acquisition methods:** Various.
- 3c. **Geographic coverage:** Newfoundland and Labrador: Gros Morne; Cape St. Mary's; Hawke Hills; Point La Haye; Salmonier; Sop's Arm; Terra Nova.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1880 to present.
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** There may be a charge.
7. **Corresponding printed sources:** Newell, John P., *Inventory of Non-Standard Climate Data Sets for Newfoundland and Labrador*, 1986. Unpublished report for Newfoundland and Labrador Climate Advisory Committee.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Climate; Climatology
11. **Additional information:** None.

PRINCE EDWARD ISLAND



Department of Agriculture, Fisheries and Forestry

1935 Forest Outline

FO--0015-E

1. **Summary description:** A 1:10 000 map of forest cover and cleared land in 1935.
- 2a. **Responsible organization:** Department of Agriculture, Fisheries and Forestry
- 2b. **Database contact:** Mr. Bob Nicholson, Forestry Branch, Department of Agriculture, Fisheries and Forestry, P.O. Box 2000, Charlottetown, P.E.I. C1A 7N8
Phone: (902) 368-4706 *Facsimile:* (902) 368-4713
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - land cover (cleared, forested)
 - surface water
 - roads
 - old fields (coverage incomplete)
- 3b. **Data acquisition methods:** Map prepared from 1935 aerial photographs, then digitized.
- 3c. **Geographic coverage:** Prince Edward Island.
- 3d. **Geographic units of measure:** UTM coordinates.
- 3e. **Period of record:** Inventory taken in 1935.
- 3f. **Update frequency:** Static record.
- 4a. **Database storage format:** Hardcopy maps, diskette.
- 4b. **Database computer environment:** SUN, UNIX, CARIS GIS.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Forestry; Geographic Information System; Land use
11. **Additional information:** Changes in forest cover can be determined through comparisons with the 1980 (in GIS by early 1994) and 1990 Forest Inventory databases (in GIS).

1980 Forest Inventory

FI--0016-E

1. **Summary description:** Data on tree species, height, and density for forest stands and use of nonforested land.
- 2a. **Responsible organization:** Department of Agriculture, Fisheries and Forestry
- 2b. **Database contact:** Mr. Bob Nicholson, Forestry Branch, Department of Agriculture, Fisheries and Forestry, P.O. Box 2000, Charlottetown, P.E.I. C1A 7N8
Phone: (902) 368-4706 *Facsimile:* (902) 368-4713
- 2c. **Access mechanisms:** Through the responsible organization.

3a. Parameters measured:

- forest stand
- species (3 per stand)
- height (nearest 3 metres)
- density (20 percent classes)
- other land classes (urban, swamp, old field, agricultural, cleared, partially cut)

3b. **Data acquisition methods:** 1980 aerial photograph interpretation was ground-truthed.

3c. **Geographic coverage:** Prince Edward Island.

3d. **Geographic units of measure:** Stands referenced by map and stand number.

3e. **Period of record:** Inventory taken in 1980.

3f. **Update frequency:** Static record.

4a. **Database storage format:** Hardcopy maps, diskette in 1994.

4b. **Database computer environment:** SUN, UNIX, CARIS GIS.

5. **Restrictions and conditions:** None.

6. **Price information:** Under review.

7. **Corresponding printed sources:** None.

8. **Languages:** English.

9. **User aids available:** None.

10. **Keywords:** Atlantic; Forestry; Geographic Information System; Trees

11. Additional information:

1. Changes in forest coverage and land use can be determined by comparing this database with the 1990 Forest Inventory database and the 1935 Forest Outline database (both in GIS).
2. This database will be available in GIS sometime in 1994.

1990 Forest Inventory

FI--0017-E

1. **Summary description:** Data on tree species, height and density for forest stands and use of nonforested land.
- 2a. **Responsible organization:** Department of Agriculture, Fisheries and Forestry
- 2b. **Database contact:** Mr. Bob Nicholson, Forestry Branch, Department of Agriculture, Fisheries and Forestry, P.O. Box 2000, Charlottetown, P.E.I. C1A 7N8
Phone: (902) 368-4707 *Facsimile:* (902) 368-4713
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - forest stand
 - species (5/stand)
 - height (nearest metre)
 - density (10 percent classes)
 - other land classes (urban, swamp, old field, agricultural, cleared, partially cut)
- 3b. **Data acquisition methods:** 1990 aerial photograph interpretation was ground-truthed.
- 3c. **Geographic coverage:** Prince Edward Island.
- 3d. **Geographic units of measure:** Stands referenced by map and grid stand number.
- 3e. **Period of record:** Inventory taken in 1990.
- 3f. **Update frequency:** Static record.
- 4a. **Database storage format:** Hardcopy maps, diskette.
- 4b. **Database computer environment:** SUN, UNIX, CARIS GIS.
5. **Restrictions and conditions:** None.
6. **Price information:** Under review.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.

- 10. Keywords:** Atlantic; Forestry; Geographic Information System; Trees
- 11. Additional information:** Changes in forest coverage and land use can be determined by comparing this database with the 1980 Forest Inventory database (in GIS by spring, 1994) and the 1935 Forest Outline database (in GIS).

Forest Inventory - Ground Plots

FIG-0018-E

- 1. Summary description:** Data on species and size of trees, site quality, regeneration and ground vegetation in forest plots that are used to provide growth information for production models and for ground-truthing forest inventory maps.
- 2a. Responsible organization:** Department of Agriculture, Fisheries and Forestry
- 2b. Database contact:** Mr. Bill M. Glen, Manager of Silviculture Development, Forestry Branch, Department of Agriculture, Fisheries and Forestry, P.O. Box 2000, Charlottetown, P.E.I. C1A 7N8
Phone: (902) 368-4700 *Facsimile:* (902) 368-4713
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- merchantable trees over 9 cm in diameter (species, diameter, potential products (pulp, saw logs), dominant hardwood tree)
 - (age, height, diameter), dominant softwood tree)
 - unmerchantable trees less than 9 cm in diameter but greater than 1.3 m in height (species, diameter status alive/dead)
 - other trees (species, no. stems)
 - regeneration of stems greater than 15 cm but less than 1 m (1991 only; species, number of stems)
 - ground vegetation (1991 only; species, per cent cover)
 - soil (profile, horizons, slope, aspect, description, chemical analysis)
- 3b. Data acquisition methods:** Field survey. Merchantable stems selected by a basal area factor, other trees enumerated in a 2.26 m radius plot, ground vegetation and regeneration recorded in a 4 sq m plot.
- 3c. Geographic coverage:** Forested regions of the province: 900 plots in 1981; 1,200 in 1991.
- 3d. Geographic units of measure:** Plots referenced by UTM grid to nearest 10 m.
- 3e. Period of record:** 1981 to 1991.
- 3f. Update frequency:** Census of plots every 10 years (different plots each year).
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, UNIX, DBASE, CA-RIS GIS.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** *Forest and Biomass Inventory Manuals*, 1982, 1992.
- 8. Languages:** English.
- 9. User aids available:** Reports covering data collection and compilation are available.
- 10. Keywords:** Atlantic; Forestry; Geographic Information System; Trees
- 11. Additional information:**
1. Although the reports are dated 1980 and 1990, field inventories were carried out in 1981 and 1991, respectively.
 2. The 1990 forest and biomass summary report is in preparation.
 3. Summary 1981 and 1991 data are in separate databases called SumPlt80 and SumPlt90.

Forest Inventory - Stands

FIS-0020-E

- 1. Summary description:** Data on species, height and crown closure for stands, interpreted from aerial photographs and used as a basis for the 1980 and 1990 forest inventory maps.
- 2a. Responsible organization:** Department of Agriculture, Fisheries and Forestry
- 2b. Database contact:** Mr. Bill M. Glen, Manager of Silviculture Development, Forestry Branch, Department of Agriculture, Fisheries and Forestry, P.O. Box 2000, Charlottetown, P.E.I. C1A 7N8
Phone: (902) 368-4700 *Facsimile:* (902) 368-4713
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- stand (number, size, history)
 - 1980 stand inventory (species, 3 in order of abundance, per cent crown closure by species in 25 percent classes, height in 5 m classes)
 - 1990 stand inventory (species, 5 in order of abundance with per cent, per cent crown closure by species in 10 percent classes, height in 1 m classes)
 - general land classification of nonforested areas (agriculture, urban)
- 3b. Data acquisition methods:** Stands inventoried by aerial photograph interpretation and ground-truthed.
- 3c. Geographic coverage:** Over 100,000 stands in the forested portion of the province.
- 3d. Geographic units of measure:** Stands referenced by sequential numbers or coordinates.
- 3e. Period of record:** 1980 to 1990.
- 3f. Update frequency:** Every 10 years.
- 4a. Database storage format:** Hardcopy maps, diskette.
- 4b. Database computer environment:** PC, INGRES, DBASE.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge for data files; hard copy maps are \$4.00.
- 7. Corresponding printed sources:** *Forest and Biomass Inventory - Executive Summary*. 1982.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Atlantic; Forestry; Trees
- 11. Additional information:**
1. Silviculture activities performed on each stand are recorded on an annual basis, but will not be added to the database until the next major revision in the year 2000.
 2. Plans are to update the database in 1994 to incorporate harvest data.
 3. The 1990 data have been digitized and the 1980 data are currently being digitized.

Frost Risk Areas

FRA-0024-E

- 1. Summary description:** Frost risk data for the entire province at 1:126 000 and partial coverage at 1:10 000.
- 2a. Responsible organization:** Department of Agriculture, Fisheries and Forestry
- 2b. Database contact:** Ms. Gwen Vessey, Engineering Technician, Land Resources Unit, Agriculture Division, Department of Agriculture, Fisheries and Forestry, P.O. Box 2000, Charlottetown, P.E.I. C1A 7N8
Phone: (902) 368-5638 *Facsimile:* (902) 368-5661
- 2c. Access mechanisms:** Through the responsible organization.

3a. Parameters measured:

- altitude
- slope
- probability of frost occurrence (10 percent increments) on particular days
- duration of frost-free period

3b. Data acquisition methods: Field surveys and historical records. Parameters recorded during field surveys.

3c. Geographic coverage: Central portion of Queen's County and most of King's County at 1:10 000, entire island at 1:126 000.

3d. Geographic units of measure: Polygons referenced by latitude and longitude.

3e. Period of record: 1950 to 1980.

3f. Update frequency: No update planned.

4a. Database storage format: Hardcopy maps, diskette.

4b. Database computer environment: PC, CARIS GIS.

5. Restrictions and conditions: None.

6. Price information: No charge.

7. Corresponding printed sources: Bootsma, A., *Risk of Prince Edward Island*, 1980.

8. Languages: English.

9. User aids available: Survey and mapping details in 1980 report.

10. Keywords: Agriculture; Atlantic; Geographic Information System; Plants

11. Additional information:

1. This database is currently being converted from ARC/INFO to CARIS.
2. 50 percent frost probability isolines are mapped for various dates and a table showing 10 to 90 percent probabilities appears on each map.

Laboratory Information System

LIS-0038-E

1. Summary description: Soil, feed, greenhouse test data (database of soil and feed analysis).

2a. Responsible organization: Department of Agriculture, Fisheries and Forestry

2b. Database contact: Mr. Barry Thompson, Agronomist, Agriculture Division, Department of Agriculture, Fisheries and Forestry, P.O. Box 1600, Charlottetown, P.E.I. C1A 7N3

Phone: (902) 368-5626 *Facsimile:* (902) 368-5661

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- soil (pH, organic matter, P₂O₅, K₂O, Ca, Mg, micronutrients)
- feed (dry matter, protein, ADF, DE, TDN, Ca, Mg, K, P, Cu, Zn, fat, ash)

3b. Data acquisition methods: Soil and feed samples submitted for analysis by clients. Clients drop off samples to the laboratory for analysis.

3c. Geographic coverage: Prince Edward Island.

3d. Geographic units of measure: Data referenced by client address.

3e. Period of record: 1993 to present.

3f. Update frequency: Continually.

4a. Database storage format: Diskette, tape.

4b. Database computer environment: PC, CLIPPER.

5. Restrictions and conditions: None.

6. Price information: No charge.

7. Corresponding printed sources: Yearly statistics compiled from June 1 to May 31.

8. Languages: English.

9. User aids available: User's manual.

10. Keywords: Agriculture; Atlantic; Soils

11. Additional information: None.

Permanent Forest Sample Plot

PFS-0019-E

1. Summary description: Species, size and stem quality data for individual merchantable trees and for unmerchantable trees >1.3 m used to monitor forest growth.

2a. Responsible organization: Department of Agriculture, Fisheries and Forestry

2b. Database contact: Mr. Bill M. Glen, Manager of Silviculture Development, Forestry Branch, Department of Agriculture, Fisheries and Forestry, P.O. Box 2000, Charlottetown, P.E.I. C1A 7N8

Phone: (902) 368-4700 *Facsimile:* (902) 368-4713

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- merchantable trees (species, diameter, individual tree number)
- unmerchantable trees greater than 1.3 m (species, diameter, height, age, diameter)
- stem quality
- soil profile

3b. Data acquisition methods: Field survey. Trees and soils are enumerated during the first field visit. Every 3 to 5 years diameter and stem quality are assessed.

3c. Geographic coverage: 400 plots ranging in size from 1/50 to 1/25 ha established throughout the forested region of the province.

3d. Geographic units of measure: Plots referenced by UTM grid to nearest 100 m.

3e. Period of record: 1974 to present.

3f. Update frequency: Plots revisited every 5 years formerly, currently every 3.

4a. Database storage format: Hardcopy, diskette.

4b. Database computer environment: PC, FOXPRO.

5. Restrictions and conditions: None.

6. Price information: No charge.

7. Corresponding printed sources: None.

8. Languages: English.

9. User aids available: Manual available describing data collection methods.

10. Keywords: Atlantic; Forestry; Trees

11. Additional information: Plots are selected for various purposes including the assessment of particular silvicultural treatments.

Soils of Prince Edward Island

SPE-0023-E

1. Summary description: Data on soils for the entire province at 1:10 000 and 1:126 000.

2a. Responsible organization: Department of Agriculture, Fisheries and Forestry

2b. Database contact: Ms. Gwen Vessey, Engineering Technician, Land Resources Unit, Agriculture Division, Department of Agriculture, Fisheries and Forestry, P.O. Box 2000, Charlottetown, P.E.I. C1A 7N8

Phone: (902) 368-5650 *Facsimile:* (902) 368-5661

2c. Access mechanisms: Through the responsible organization.

- 3a. **Parameters measured:**
 - 17 parameters including (soil type, soil texture, soil phase, slope)
- 3b. **Data acquisition methods:** Field surveys and historical records. Soil parameters recorded during field survey.
- 3c. **Geographic coverage:** Province-wide coverage at 1:10 000 and 1:126 000.
- 3d. **Geographic units of measure:** Polygons referenced by latitude and longitude.
- 3e. **Period of record:** 1970 to 1980.
- 3f. **Update frequency:** No update planned.
- 4a. **Database storage format:** Hardcopy maps, diskette.
- 4b. **Database computer environment:** PC, ARC/INFO GIS, CARIS GIS.
5. **Restrictions and conditions:** None.
6. **Price information:** Not established.
7. **Corresponding printed sources:** MacDougal, J.I., C. Veer and F. Wilson, *Soils of Prince Edward Island*, 1988.
8. **Languages:** English.
9. **User aids available:** Survey and mapping details are in the 1988 report.
10. **Keywords:** Atlantic; Geographic Information System; Landscape; Technology
11. **Additional information:** The database is currently being converted from ARC/INFO to CARIS.

Soybean Adaptation Trial

SBA-0059-E

1. **Summary description:** Soybean biodata and weather information collected from May to October each year.
- 2a. **Responsible organization:** Department of Agriculture, Fisheries and Forestry
- 2b. **Database contact:** Dr. K. S. Clough, New Crop Development, Agriculture, Department of Agriculture, Fisheries and Forestry, P.O. Box 1600, Charlottetown, P.E.I. C1A 7N3
Phone: (902) 368-5636 Facsimile: (902) 368-5661
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - radiation (total)
 - temperature (air, soil)
 - precipitation
 - relative humidity
 - wind velocity
- 3b. **Data acquisition methods:** Campbell Scientific datalogger and appropriate sensors.
- 3c. **Geographic coverage:** Prince Edward Island.
- 3d. **Geographic units of measure:** Weather station locations referenced by latitude and longitude.
- 3e. **Period of record:** 1989 to present.
- 3f. **Update frequency:** Weekly (from May to October).
- 4a. **Database storage format:** Diskette, cassette tape.
- 4b. **Database computer environment:** PC, TELECOM and Campbell Scientific PC201/PC208 software to download/upload data.
5. **Restrictions and conditions:** None.
6. **Price information:** Not applicable.
7. **Corresponding printed sources:** Weekly weather reports generated for industry and extension personnel; environmental and biodata being used to develop and fit a growth and development model for soybeans.
8. **Languages:** English.
9. **User aids available:** None.

10. **Keywords:** Agriculture; Atlantic; Plants

11. **Additional information:** None.

Total Fish Landings and Values History

TFL-0028-E

1. **Summary description:** Annual total landings and values landed in the province for shellfish, groundfish, pelagics and other species.
- 2a. **Responsible organization:** Department of Agriculture, Fisheries and Forestry
- 2b. **Database contact:** Mr. Randy Francis, Commercial Fisheries Division, Department of Agriculture, Fisheries and Forestry, P.O. Box 2000, Charlottetown P.E.I. C1A 7N8
Phone: (902) 368-5253 Facsimile: (902) 368-5542
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - species (shellfish, groundfish, pelagics, estuarial, molluscs, crustaceans, Irish moss, sea urchins)
 - landings (landed value, year)
- 3b. **Data acquisition methods:** Purchase reports. DFO field staff collect purchase slips in the field that are forwarded to headquarters in Moncton for compiling. A summary of the data is provided to the provincial department.
- 3c. **Geographic coverage:** Prince Edward Island.
- 3d. **Geographic units of measure:** Species.
- 3e. **Period of record:** 1948 to present. Incomplete information is available from 1923-1948.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** UNISYS mainframe, MAPPER.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Fisheries statistical review.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Fish; Fisheries; Marine
11. **Additional information:**
 1. Data for the current year are received from DFO as paper files and the data are broken down by statistical districts within the province. The historical data, totals for the entire province, are in the computerized database.
 2. The DFO database contains added information about fishermen, buyers and vessels.



Department of Environmental Resources

Department of Environmental Resources Regulatory Action

DER-0032-E

1. **Summary description:** Details of all prosecutions, warnings and orders under the various Acts and Regulations enforced.
- 2a. **Responsible organization:** Department of Environmental Resources
- 2b. **Database contact:** Mr. Nelson Hurry, Head, Investigative and Enforcement Section, Environmental Protection, Department

of Environmental Resources, P.O. Box 2000, Charlottetown, P.E.I. C1A 7N8

Phone: (902) 368-5033 Facsimile: (902) 368-5830

2c. **Access mechanisms:** Through the responsible organization.

3a. **Parameters measured:**

- date
- location
- name of accused
- incident reporter
- type of action
- offence (description, disposition)

3b. **Data acquisition methods:** Departmental investigators. Incidents are identified through public complaints and investigator patrols.

3c. **Geographic coverage:** Prince Edward Island.

3d. **Geographic units of measure:** Incidents recorded by region, municipality.

3e. **Period of record:** 1991 to present.

3f. **Update frequency:** As incidents occur.

4a. **Database storage format:** Hardcopy, diskette.

4b. **Database computer environment:** PC, LOTUS 123.

5. **Restrictions and conditions:** Access to raw data restricted to Enforcement staff.

6. **Price information:** No charge.

7. **Corresponding printed sources:** Summary statistics are included in the annual departmental report.

8. **Languages:** English.

9. **User aids available:** None.

10. **Keywords:** Atlantic; Enforcement; Regulation

11. **Additional information:** None.

Fish Populations at Fishways

FPF-0013-E

1. **Summary description:** Species and size data for anadromous fish used to assess populations passing through fishways.

2a. **Responsible organization:** Department of Environmental Resources

2b. **Database contact:** Mr. Allie McLennan, Fisheries Biologist, Fish and Wildlife Division, Department of Environmental Resources, P.O. Box 2000, Charlottetown, P.E.I. C1A 7N8

Phone: (902) 368-4572 Facsimile: (902) 368-5471

2c. **Access mechanisms:** Through responsible organization.

3a. **Parameters measured:**

- species (salmonids, eels, gaspereau, white perch, smelts)
- number of fish (presence only for smelts)
- fish length (salmonids only)
- water (temperature, level, turbidity)
- date
- location

3b. **Data acquisition methods:** Field survey. Volunteer angling groups or departmental staff inventory fish in traps or on counting fences located in fishways.

3c. **Geographic coverage:** In 1993, 15 fishways were monitored.

3d. **Geographic units of measure:** Place name, UTM coordinates.

3e. **Period of record:** 1971 to present.

3f. **Update frequency:** Weekly or monthly, during the seasonal run.

4a. **Database storage format:** Hardcopy, diskette.

4b. **Database computer environment:** PC, DBASE.

5. **Restrictions and conditions:** None.

6. **Price information:** No charge.

7. **Corresponding printed sources:** Summary reports are available for some rivers such as the Morrell, Montague and Valleyfield.

8. **Languages:** English.

9. **User aids available:** None.

10. **Keywords:** Atlantic; Fish; Wildlife

11. **Additional information:** None.

Game Harvesting Data

GHD-0012-E

1. **Summary description:** Harvest by species used to determine long term trends in game populations.

2a. **Responsible organization:** Department of Environmental Resources

2b. **Database contact:** Mr. Randall Dibblee, Fish and Wildlife Division, Department of Environmental Resources, P.O. Box 2000, Charlottetown, P.E.I. C1A 7N8

Phone: (902) 368-4683 Facsimile: (902) 368-5471

2c. **Access mechanisms:** Through the responsible organization.

3a. **Parameters measured:**

- species (ruffed grouse, Hungarian partridge, snowshoe hares, woodcock, other ducks, black ducks, Canada geese, red foxes, raccoon)
- number harvested

3b. **Data acquisition methods:** Questionnaires. Hunters are randomly selected from a list of the previous year's license purchasers and sent a questionnaire to be returned by mail.

3c. **Geographic coverage:** Prince Edward Island.

3d. **Geographic units of measure:** Not applicable.

3e. **Period of record:** 1970 to 1987.

3f. **Update frequency:** Annually, to be updated in 1993.

4a. **Database storage format:** Hardcopy.

4b. **Database computer environment:** Not applicable.

5. **Restrictions and conditions:** None.

6. **Price information:** No charge.

7. **Corresponding printed sources:** Harvest estimates are provided in annual reports.

8. **Languages:** English.

9. **User aids available:** None.

10. **Keywords:** Atlantic; Harvesting; Wildlife

11. **Additional information:** None.

Petroleum Storage Tank Management System

PST-0007-E

1. **Summary description:** Information on underground storage tank systems and sites in Prince Edward Island.

2a. **Responsible organization:** Department of Environmental Resources

2b. **Database contact:** Mr. Mark Victor, Head, Air Quality and Hazardous Materials Section, Department of Environmental Resources, P.O. Box 2000, Charlottetown, P.E.I. C1A 7N8

Phone: (902) 368-5037 Facsimile: (902) 368-5830

2c. **Access mechanisms:** Through the responsible organization.

3a. **Parameters measured:**

- site facility location
- owner contact information
- sensitivity classification
- tank system information (age, status, contractor, specifications)

- 3b. **Data acquisition methods:** Reports. Mandatory tank system registration and field inspections required by the Petroleum Storage Tank Regulations.
- 3c. **Geographic coverage:** Prince Edward Island.
- 3d. **Geographic units of measure:** Individual communities, provincial map sheets.
- 3e. **Period of record:** 1986 to present.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy, hard disk.
- 4b. **Database computer environment:** PC, DBASE, CLIPPER.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English and French.
9. **User aids available:** See data centre contact.
10. **Keywords:** Atlantic; Engineering; Fuel
11. **Additional information:** Data can be manipulated using DBASE.

Spills

SPI-0006-E

1. **Summary description:** Information on petroleum spills reported to the Prince Edward Island Department of Environmental Resources.
- 2a. **Responsible organization:** Department of Environmental Resources
- 2b. **Database contact:** Mr. Danny MacInnis, Air Quality and Hazardous Materials Section, Department of Environmental Resources, P.O. Box 2000, Charlottetown, P.E.I. C1A 7N8
Phone: (902) 368-5057 *Facsimile:* (902) 368-5830
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - location
 - property owner
 - date reported
 - source
 - product spilled
 - environmental risk
 - clean-up status
- 3b. **Data acquisition methods:** Reports. Mandatory spill reporting requirements as required by the Environmental Protection Act and the Petroleum Storage Tank Regulations.
- 3c. **Geographic coverage:** Prince Edward Island.
- 3d. **Geographic units of measure:** Individual communities, provincial map sheets.
- 3e. **Period of record:** 1991 to present.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, LOTUS 123.
5. **Restrictions and conditions:** Written request required for site-specific information.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** See data centre contact.
10. **Keywords:** Atlantic; Contaminants; Spills
11. **Additional information:** This database is being currently transferred from a Macintosh computer system to a DOS-based personal computer.

Water Chemistry

WAT-0022-E

1. **Summary description:** Water quality data for ground and surface water.
- 2a. **Responsible organization:** Department of Environmental Resources
- 2b. **Database contact:** Mr. Bruce Raymond, Head, Rivers and Estuaries, Department of Environmental Resources, P.O. Box 2000, Charlottetown, P.E.I. C1A 7N8
Phone: (902) 368-5054 *Facsimile:* (902) 368-5830
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - bacterial counts (coliform, fecal coliform)
 - chlorophyll
 - chemical and physical properties - selected list (salinity, alkalinity, hardness, pH, dissolved oxygen, solids, nitrate, phosphorus, ammonia, metals (copper, lead, iron, chromium))
- 3b. **Data acquisition methods:** Sample bottles. Groundwater collected in chemically clean/sterile bottles, surface water in kemmerer bottles.
- 3c. **Geographic coverage:** Prince Edward Island.
- 3d. **Geographic units of measure:** Samples referenced within 100 m by UTM coordinates.
- 3e. **Period of record:** 1979 to present.
- 3f. **Update frequency:** Daily.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE.
5. **Restrictions and conditions:** Access restrictions depend on the intended use of the data.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Reports have been prepared for specific study areas such as Hillsborough, Mill and West River estuaries, and the town of Montague.
8. **Languages:** English.
9. **User aids available:** A description of the original database is available. The system is menu-driven and has modifiable on-line help for users.
10. **Keywords:** Atlantic; Hydrology; Water
11. **Additional information:** None.

Water Well Information System

WWI-0025-E

1. **Summary description:** Construction, water yield, and geological data for wells drilled in the province.
- 2a. **Responsible organization:** Department of Environmental Resources
- 2b. **Database contact:** Mr. George Somers, Head, Groundwater Section, Department of Environmental Resources, Water Resources Division, P.O. Box 2000, Charlottetown, P.E.I. C1A 7N8
Phone: (902) 368-5046 *Facsimile:* (902) 368-5830
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - location (UTM grid, locality, property number)
 - owner
 - well (diameter, depth, casing material and depth)
 - test (duration, rate)
 - geological data
- 3b. **Data acquisition methods:** Well drillers' reports. Well drillers are legally required to submit reports to the department.
- 3c. **Geographic coverage:** Prince Edward Island.

- 3d. **Geographic units of measure:** Wells referenced by UTM coordinates and property number.
- 3e. **Period of record:** 1972 to present.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Annual update in departmental annual report. Annual reports are prepared providing numbers of wells drilled by county. Occasional region-specific reports are produced.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Hydrology; Water
11. **Additional information:**
1. A federal-provincial working group convened to develop a standard database format and determine methodologies for exchanging database information.
 2. Water quality data for wells is held in the Water Chemistry database.
 3. In the future, wells will also be referenced by land parcel numbers.
 4. The quality of the data varies among drillers.

Wild Fur Harvesting Data

WFH-0011-E

1. **Summary description:** Annual biological and socio-economic data on the harvest of fur bearers used in population management.
- 2a. **Responsible organization:** Department of Environmental Resources
- 2b. **Database contact:** Mr. Randall Dibblee, Fish and Wildlife Division, Department of Environmental Resources, P.O. Box 2000, Charlottetown, P.E.I. C1A 7N8
Phone: (902) 368-4683 *Facsimile:* (902) 368-5471
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - species (beaver, mink, coyote, skunk, squirrel, raccoon, red fox, muskrat, weasel)
 - number harvested
 - average price per pelt
 - total value by species
 - number of active trappers
- 3b. **Data acquisition methods:** Existing records. Trapper and harvest data obtained from wild fur export permits. Pelt values received from fur auction houses.
- 3c. **Geographic coverage:** Prince Edward Island.
- 3d. **Geographic units of measure:** Entire province.
- 3e. **Period of record:** 1971 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE, LOTUS 123.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Annual fur harvest and value.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Harvesting; Wildlife
11. **Additional information:** Virtually all furs harvested in the province are exported.



Department of Finance

Property Assessment Tax System (PATs) Building Permits

PAT-0071-E

1. **Summary description:** Building permit information by parcel number collected for completing biannual new construction inspections.
- 2a. **Responsible organization:** Department of Finance
- 2b. **Database contact:** Mr. Kevin Dingwell, Chief Assessor, Farm and Residential Section, Provincial Revenue, Department of the Provincial Treasury, P.O. Box 2000, Charlottetown, P.E.I. C1A 7N8
Phone: (902) 368-4078 *Facsimile:* (902) 368-5544
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - applicant
 - permit and construction information
- 3b. **Data acquisition methods:** Building permit reports. Permit data are obtained from the Department of Provincial Affairs and Attorney General or municipalities/communities.
- 3c. **Geographic coverage:** Prince Edward Island.
- 3d. **Geographic units of measure:** provincial property number, fire district, school district, lot and township, municipality
- 3e. **Period of record:** 1984 to present.
- 3f. **Update frequency:** Updated on-line daily.
- 4a. **Database storage format:** Hardcopy, diskette (ASCII files).
- 4b. **Database computer environment:** UNISYS, LINC.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Annual adjustment multiplier report.
8. **Languages:** English.
9. **User aids available:** Land LINC user's guide.
10. **Keywords:** Atlantic; Construction; Engineering
11. **Additional information:** On-line access to this database is available only to Real Property Records Division staff.



Department of Health and— Social Services

Audiology Database

AUD-0049-E

1. **Summary description:** Information on all persons receiving services from the Provincial Audiologist.
- 2a. **Responsible organization:** Department of Health and Social Services
- 2b. **Database contact:** Ms. Faye Campbell, MIS Coordinator, Corporate Services, Department of Health and Social Services, P.O. Box 2000, Charlottetown, P.E.I. C1A 7N8
Phone: (902) 368-4924 *Facsimile:* (902) 368-4969

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- name, address, SIN, phone number, date of birth, sex, region
- begin, referral and termination dates
- referral source, reason for termination
- disposition
- visit number, clinic location, appointment date, service time, services received
- pathology and degree loss, left and right ears
- contact date

3b. Data acquisition methods: Audiologist's reports. Reports made to the department.

3c. Geographic coverage: Prince Edward Island.

3d. Geographic units of measure: Region.

3e. Period of record: 1987 to present.

3f. Update frequency: Daily.

4a. Database storage format: Hardcopy, diskette.

4b. Database computer environment: PC, DBASE.

5. Restrictions and conditions: Individual records are confidential.

6. Price information: No charge.

7. Corresponding printed sources: Monthly and annual statistical reports are produced.

8. Languages: English.

9. User aids available: None.

10. Keywords: Atlantic; Health; Human Health

11. Additional information: None.

Communicable Disease Registry

CDR-0042-E

1. Summary description: Contains information on all cases of communicable diseases in the province to facilitate control of the diseases under surveillance.

2a. Responsible organization: Department of Health and Social Services

2b. Database contact: Ms. Faye Campbell, MIS Coordinator, Corporate Services, Department of Health and Social Services, P.O. Box 2000, Charlottetown, P.E.I. C1A 7N8
Phone: (902) 368-4924 Facsimile: (902) 368-4969

2c. Access mechanisms: Through the Provincial Epidemiologist.

3a. Parameters measured:

- patient (name, address, age, sex, occupation)
- disease
- organism information
- TB information
- date reported
- treatment information
- epidemiologic information
- immunization history
- travel information

3b. Data acquisition methods: Laboratory reports from hospital microbiology labs. Case reports from Public Health Nurses.

3c. Geographic coverage: Prince Edward Island.

3d. Geographic units of measure: Unit, county, postal code.

3e. Period of record: 1992 to present. Database initiated in November, 1992.

3f. Update frequency: Daily.

4a. Database storage format: Diskette.

4b. Database computer environment: PC, EPI-INFO.

5. Restrictions and conditions: Individual records are confidential.

6. Price information: No charge.

7. Corresponding printed sources: Case statistics, updates to LCDC on diskette.

8. Languages: English.

9. User aids available: None.

10. Keywords: Atlantic; Health; Human Health

11. Additional information: None.

Congenital Anomaly Registry

CAR-0044-E

1. Summary description: Information on births involving an anomaly.

2a. Responsible organization: Department of Health and Social Services

2b. Database contact: Ms. Faye Campbell, MIS Coordinator, Corporate Services, Department of Health and Social Services, P.O. Box 2000, Charlottetown, P.E.I. C1A 7N8
Phone: (902) 368-4924 Facsimile: (902) 368-4969

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- child (name, sex, birth type, anomaly, date of death)
- parents (names, address)
- mothers (previous birth types, smoking habits)

3b. Data acquisition methods: Notice of Congenital Anomaly Form and First Year Visit Card. Hospitals.

3c. Geographic coverage: Prince Edward Island.

3d. Geographic units of measure: Region, postal code.

3e. Period of record: 1986 to present.

3f. Update frequency: Monthly.

4a. Database storage format: Hardcopy, diskette.

4b. Database computer environment: PC, DBASE.

5. Restrictions and conditions: Individual records are confidential.

6. Price information: No charge.

7. Corresponding printed sources: Monthly case reports and annual statistical reports are produced.

8. Languages: English.

9. User aids available: None.

10. Keywords: Atlantic; Health; Human Health

11. Additional information: None.

Oncology Registry

OC-0045-E

1. Summary description: Information on all diagnosed malignant neoplasms that occur in-province.

2a. Responsible organization: Department of Health and Social Services

2b. Database contact: Ms. Faye Campbell, MIS Coordinator, Corporate Services, Department of Health and Social Services, P.O. Box 2000, Charlottetown, P.E.I. C1A 7N8
Phone: (902) 368-4924 Facsimile: (902) 368-4969

2c. Access mechanisms: Through the Provincial Oncologist.

3a. Parameters measured:

- patient (name, address, sex, age, marital status, date and place of birth, cause of death)
- disease classification (typography, morphology)

3b. Data acquisition methods: Hospital lab reports, patient charts and death reports. Reports examined by Provincial Oncologist.

3c. Geographic coverage: Prince Edward Island.

3d. Geographic units of measure: Postal code, standard geographic code.

- 3e. **Period of record:** 1987 to present.
- 3f. **Update frequency:** Daily.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE.
5. **Restrictions and conditions:** Individual records are confidential.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Annual statistical reports, case data reported to Statistics Canada.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Health; Human Health
11. **Additional information:** None.

Tuberculosis Registry

TBR-0048-E

1. **Summary description:** Used to monitor and track all cases of tuberculosis cases and contacts.
- 2a. **Responsible organization:** Department of Health and Social Services
- 2b. **Database contact:** Ms. Faye Campbell, MIS Coordinator, Corporate Services, Department of Health and Social Services, P.O. Box 2000, Charlottetown, P.E.I. C1A 7N8
Phone: (902) 368-4924 Facsimile: (902) 368-4969
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - name, address, phone number, date of birth, sex
 - date case identified, status, nurse number
 - sputum test date and result
 - mantoux test date and result
 - x-ray dates and results
- 3b. **Data acquisition methods:** Hospital laboratory reports.
- 3c. **Geographic coverage:** Prince Edward Island.
- 3d. **Geographic units of measure:** Region, county.
- 3e. **Period of record:** 1993 to present. System has been completed, but implementation planned for November 1993 to March 1994 period.
- 3f. **Update frequency:** Not determined.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC.
5. **Restrictions and conditions:** Individual records are confidential.
6. **Price information:** No charge.
7. **Corresponding printed sources:** There will be statistical aggregations of the data made available once this system is fully implemented.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Health; Human Health
11. **Additional information:** Data for historical cases may be included in this database.



Department of Provincial Affairs and Attorney General

Building and Disposal Permits

BDP-0030-E

1. **Summary description:** The data are used to control and monitor building construction and sewage disposal in rural areas.
- 2a. **Responsible organization:** Department of Provincial Affairs and Attorney General
- 2b. **Database contact:** Mr. John Pickard, Supervisor, Subdivision Development Branch, Department of Provincial Affairs and Attorney General, P.O. Box 2000, Charlottetown, P.E.I. C1A 7N8
Phone: (902) 368-4887 Facsimile: (902) 368-5544
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - applicant
 - proposed structure
 - septic system details
 - date (requested, approved)
- 3b. **Data acquisition methods:** Permit application forms. Legislation requires permits be approved.
- 3c. **Geographic coverage:** Rural Prince Edward Island.
- 3d. **Geographic units of measure:** County and district.
- 3e. **Period of record:** 1960 to present.
- 3f. **Update frequency:** Weekly.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE.
5. **Restrictions and conditions:** Permit details cannot be discussed before final approval.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Annual building permit statistics reports.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Construction; Waste
11. **Additional information:**
 1. Comparable databases for urban areas are held by individual municipalities.
 2. While a permit is being considered, only information on the applicant, type of structure proposed and date of application are available from the branch.
 3. Summary data are available in annual reports; original data can be examined at the data centre, but not photocopied.

Subdivision Permits

SP-0031-E

1. **Summary description:** To control and monitor the development of subdivisions in rural areas.
- 2a. **Responsible organization:** Department of Provincial Affairs and Attorney General
- 2b. **Database contact:** Mr. John Pickard, Supervisor, Subdivision Development Branch, Department of Provincial Affairs and Attorney General, P.O. Box 2000, Charlottetown, P.E.I. C1A 7N8
Phone: (902) 368-4887 Facsimile: (902) 368-5544

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- location
- applicant
- plan number
- property tax number
- number of lots proposed
- date (application, approval)
- cross references to other applicants

3b. Data acquisition methods: Permit application forms. Legislation requires permits be approved.

3c. Geographic coverage: Rural Prince Edward Island.

3d. Geographic units of measure: Subdivision, lot.

3e. Period of record: 1960 to present.

3f. Update frequency: Updated weekly.

4a. Database storage format: Hardcopy, diskette.

4b. Database computer environment: PC, DBASE.

5. Restrictions and conditions: None.

6. Price information: No charge.

7. Corresponding printed sources: Summary statistics are published in department annual reports.

8. Languages: English.

9. User aids available: None.

10. Keywords: Atlantic; Construction; Land use

11. Additional information:

1. Comparable databases for urban areas are held by individual municipalities.
2. Summary data are available in annual reports; original data can be examined at the data centre, but not photocopied.



Department of the Provincial Treasury

PEI Digital Enhanced Topographic Database - Resource and Urban Series

DET-0026-E

1. Summary description: Digital files of topographic maps: Resource Series at 1:1 000 for Summerside and 1:2 000 for the greater Charlottetown area; Urban Series at 1:10 000 for the entire province.

2a. Responsible organization: Department of the Provincial Treasury

2b. Database contact: Ms. Brenda Campbell-Perry, System Administrator, Geomatics Information Centre, Department of the Provincial Treasury, P.O. Box 2000, Charlottetown, P.E.I. C1A 7N8

Phone: (902) 368-5165 Facsimile: (902) 368-4399

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- buildings (structures)
- designated areas
- utilities
- hydrography
- delimiters
- land cover
- roads
- railroads
- contours (see 11)

3b. Data acquisition methods: Aerial photographs. For the Resource Series, 1985 and 1988 aerial photographs at 1:35 000 were interpreted and the information digitized. For the Urban Series, 1985 and 1991 aerial photographs at 1:6 000 (for 1:1 000 files) and 1:10 000 (for 1:2 000 files) were interpreted and the information digitized.

3c. Geographic coverage: Entire province is covered using a stereographic double projection (ATS77) with origin as latitude 47°15'N, longitude 63°W, scale factor 0.999912 and false northing and easting as 400,000/700,000.

3d. Geographic units of measure: Data for the Resource Series are positioned within 2.5 m while the Urban Series are positioned within less than 1 m.

3e. Period of record: 1985 to 1991. Resource Series: for the portion of the island west of Summerside/Miscouche, 1985 aerial photographs were used. For the remainder of the province, maps were compiled based on 1988 photographs. Urban Series: for Summerside, 1985 aerial photographs were used. For the greater Charlottetown area, maps were compiled based on 1991 photographs.

3f. Update frequency: No periodic updates planned.

4a. Database storage format: Exabyte/SCSI tapes, CDROM, diskette.

4b. Database computer environment: SUN, UNIX, AUTOCAD, CARIS GIS.

5. Restrictions and conditions: None.

6. Price information: \$100.00 per file, \$150.00 other formats and \$40.00 per paper copy.

7. Corresponding printed sources: None.

8. Languages: English.

9. User aids available: *System Data Summary for PEI GIS*, 1993.

10. Keywords: Atlantic; Geographic Information System; Remote Sensing

11. Additional information:

1. Contours for the Resource Series (4 m intervals) are available only on a few maps for the eastern part of the province. The addition of these to the remainder of the maps will depend upon the future political and economic climate. Contours for the Urban Series are available at 2 m intervals on the 1:2 000 maps and 1 m intervals on the 1:1 000 maps.
2. While 1991 aerial photographs are available for the Resource Series, there are no plans to update the database using them. Urban Series plans are to expand the coverage of the greater Charlottetown area based on 1993 aerial photography.



Department of Transportation and Public Works

Construction Management System

CMS-0134-E

1. Summary description: Database system used to monitor all (road) construction or rehabilitation projects.

2a. Responsible organization: Department of Transportation and Public Works

2b. Database contact: Mr. Robert MacKinnon, Engineering Technician, Construction Section Operations, Department of Transportation and Public Works, P.O. Box 2000, Charlottetown, P.E.I. C1A 7N8

Phone: (902) 368-5195 Facsimile: (902) 368-5425

- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- contracts
 - estimates
 - tenders
 - quality control
 - reporting
- 3b. Data acquisition methods:** Field work, surveys and reports. Data via modem from the field and direct input by Departmental staff from surveys and reports.
- 3c. Geographic coverage:** Prince Edward Island.
- 3d. Geographic units of measure:** Highway control section.
- 3e. Period of record:** 1990 to present.
- 3f. Update frequency:** Daily.
- 4a. Database storage format:** Hard disk, diskette, tape.
- 4b. Database computer environment:** Mainframe, MAPPER, PC, WORDPERFECT, LOTUS 123.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** A variety of reports can be produced.
- 8. Languages:** English.
- 9. User aids available:** User's manual.
- 10. Keywords:** Atlantic; Engineering; Roads
- 11. Additional information:**
1. Database tracks length of construction and rehabilitation projects, materials and techniques.
 2. Database integrated with other systems and accessible through the provincial mainframe.

Crown Land Inventory

CLI-0029-E

- 1. Summary description:** Information on crown land used to guide property management.
- 2a. Responsible organization:** Department of Transportation and Public Works
- 2b. Database contact:** Mr. Paul Knox, Crown Property Controller, Properties and Surveys Division, Department of Transportation and Public Works, P.O. Box 2000, Charlottetown, P.E.I. C1A 7N8
Phone: (902) 368-5131 Facsimile: (902) 368-5395
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - property number
 - location
 - acreage
 - property type (land, building)
 - land coverage (woodland, cleared, shorefront)
 - designation restrictions (nature reserve)
- 3b. Data acquisition methods:** Field surveys and record compilation. Property transaction and assessment information obtained from the Registry Office, surveyors and department staff.
- 3c. Geographic coverage:** All crown land.
- 3d. Geographic units of measure:** Properties referenced by number.
- 3e. Period of record:** 1860 to present. The database was initiated in 1970.
- 3f. Update frequency:** Irregularly.
- 4a. Database storage format:** Diskette.
- 4b. Database computer environment:** SUN, CARIS GIS.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.

- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** A user's guide, Land Linc, was prepared by the Department of Finance in 1990.
- 10. Keywords:** Atlantic; Environmental Science; Geographic Information System
- 11. Additional information:**
 1. This database is a component of the province-wide GIS system being developed by the Real Property Records Division of the Department of Finance. All the data entered in the system by all departments are tied to unique property numbers.
 2. Data on private land transactions are in the Property Assessment Taxation System portion of the GIS system.
 3. A road inventory database is planned for inclusion in the GIS system.

Driver/Vehicle System

DVS-0133-E

- 1. Summary description:** Record of registered vehicles and drivers for Canada.
- 2a. Responsible organization:** Department of Transportation and Public Works
- 2b. Database contact:** Mr. John MacDonald, Registrar, Motor Vehicles, Highway Safety Division, Department of Transportation and Public Works, P.O. Box 2000, Charlottetown, P.E.I. C1A 7N8
Phone: (902) 368-5223 Facsimile: (902) 368-5236
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - vehicles
 - client transactions
 - photos
 - drivers
 - vehicle histories
- 3b. Data acquisition methods:** Reports. Direct input by Departmental staff.
- 3c. Geographic coverage:** Canada, Prince Edward Island.
- 3d. Geographic units of measure:** County.
- 3e. Period of record:** 1992 to present.
- 3f. Update frequency:** Daily.
- 4a. Database storage format:** Hardcopy, hard disk, diskette, tape.
- 4b. Database computer environment:** Mainframe, LINC.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** A variety of reports can be produced.
- 8. Languages:** English.
- 9. User aids available:** User's manual.
- 10. Keywords:** Atlantic; Transportation; Vehicles
- 11. Additional information:**
 1. Database tracks volume of registered vehicles and drivers in Prince Edward Island, Canada and the United States.
 2. Data available on a provincial and national basis.

Highway Maintenance Management System

HMM-0131-E

- 1. Summary description:** Database of all maintenance activities (winter and summer) as well as all road furniture (signs, lights, guard rails) and pavement markings.

- 2a. Responsible organization:** Department of Transportation and Public Works
- 2b. Database contact:** Mr. Joey Cairns, Administrative Officer, Engineering Services Division, Department of Transportation and Public Works, P.O. Box 2000, Charlottetown, P.E.I. C1A 7N8
Phone: (902) 368-5092 *Facsimile:* (902) 368-5395
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- maintenance activities
 - salt and sand use
 - ditching
 - markings and furniture
- 3b. Data acquisition methods:** Reports, inventories and surveys. Direct input by Departmental staff.
- 3c. Geographic coverage:** Prince Edward Island.
- 3d. Geographic units of measure:** Highway Control Section.
- 3e. Period of record:** 1988 to present.
- 3f. Update frequency:** Daily.
- 4a. Database storage format:** Hard disk, tape.
- 4b. Database computer environment:** PC, DBASE III.
- 5. Restrictions and conditions:** Mainframe is password protected.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** A variety of reports can be produced.
- 8. Languages:** English.
- 9. User aids available:** User's manual.
- 10. Keywords:** Atlantic; Contaminants; Roads
- 11. Additional information:**
1. Salt/sand, patch/crack fill and ditch clearing quantities are recorded by road.
 2. Database integrated with other systems and accessible through the provincial mainframe.

Integrated Traffic Management System (ITMS)

ITM-0132-E

- 1. Summary description:** Integrated database system used for report compilation and traffic information - all traffic monitoring systems used on Prince Edward Island, intersection counts, weigh-in-motion and classification data, permanent and temporary counters and special counts.
- 2a. Responsible organization:** Department of Transportation and Public Works
- 2b. Database contact:** Ms. Helene E. Blake, Planning Engineer, Policy and Planning Division, Department of Transportation and Public Works, P.O. Box 2000, 11 Kent Street, Charlottetown, P.E.I. C1A 7N8
Phone: (902) 368-5155 *Facsimile:* (902) 368-5395
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- average annual daily traffic
 - growth rate
 - vehicle classification profile
 - trucks
 - estimated equivalent single axle load (ESAL)
 - accumulated ESAL
 - intersection count
- 3b. Data acquisition methods:** Surveys. Data input from surveys (summer intersection counts) and downloading of field equipment (weigh in motion equipment, permanent and temporary traffic counters).
- 3c. Geographic coverage:** Prince Edward Island.

- 3d. Geographic units of measure:** Highway control section.
- 3e. Period of record:** 1991 to present.
- 3f. Update frequency:** Monthly.
- 4a. Database storage format:** Hardcopy, hard disk, tape.
- 4b. Database computer environment:** PC, DBASE, FORTRAN.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** A variety of reports can be produced.
- 8. Languages:** English.
- 9. User aids available:** Draft user's manual.
- 10. Keywords:** Atlantic; Transportation; Vehicles
- 11. Additional information:** ITMS maintains present and historical traffic data for each highway control section on Prince Edward Island. The data is used in-house as well as by private persons and consultants.

Single Application Vehicle Registration

SAV-0130-E

- 1. Summary description:** Multiple registration for trucks from any province.
- 2a. Responsible organization:** Department of Transportation and Public Works
- 2b. Database contact:** Mr. John MacDonald, Registrar, Motor Vehicles, Highway Safety Division, Department of Transportation and Public Works, P.O. Box 2000, Charlottetown, P.E.I. C1A 7N8
Phone: (902) 368-5223 *Facsimile:* (902) 368-5236
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- carrier payment records
 - carrier distance records
- 3b. Data acquisition methods:** Reports. Direct input by Departmental staff, reports.
- 3c. Geographic coverage:** National and provincial.
- 3d. Geographic units of measure:** Not applicable.
- 3e. Period of record:** 1992 to present.
- 3f. Update frequency:** Daily.
- 4a. Database storage format:** Hardcopy.
- 4b. Database computer environment:** PC, COBOL.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** A variety of reports can be produced.
- 8. Languages:** English.
- 9. User aids available:** User's manual.
- 10. Keywords:** Atlantic; Transportation; Vehicles
- 11. Additional information:**
1. The database tracks the volume of truck traffic through Prince Edward Island, Canada and the United States.
 2. Data available on a provincial or national basis.

NOVA SCOTIA



Cancer Treatment and Research Foundation of Nova Scotia

Nova Scotia Cancer Registry

NSC-0102-E

1. **Summary description:** Provision of incidence and mortality data for cancer in the province of Nova Scotia following legislated mandate according to the Nova Scotia Health Act.
- 2a. **Responsible organization:** Cancer Treatment and Research Foundation of Nova Scotia
- 2b. **Database contact:** Ms. Kathleen Decker, Cancer Treatment and Research Foundation of Nova Scotia, 1200 Tower Road, Suite 102, Halifax, N.S. B3H 4K6
Phone: (902) 428-4343 *Facsimile:* (902) 428-4277
- 2c. **Access mechanisms:** Through the Director of the Nova Scotia Cancer Registry.
- 3a. **Parameters measured:**
- fields comply with those required by the Canadian Cancer Registry (CCR)
- 3b. **Data acquisition methods:** Reporting. Information taken from hospital pathology reports, registry forms and death certificates.
- 3c. **Geographic coverage:** Nova Scotia.
- 3d. **Geographic units of measure:** Historically - municipality. 1991 onward - postal code.
- 3e. **Period of record:** 1964 to present.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy, diskette, 9-track tape, 8mm tape.
- 4b. **Database computer environment:** PC, ORACLE 6.0.
5. **Restrictions and conditions:** Must comply with confidentiality and data release policies.
6. **Price information:** No charge.
7. **Corresponding printed sources:** *Annual Incidence Report. Historical Incidence Report.*
8. **Languages:** English.
9. **User aids available:** OPIS application and data query, information can be extracted using SQL.
10. **Keywords:** Atlantic; Contaminants; Health
11. **Additional information:** None.



Department of Agriculture and Marketing

Agri Food Development Agreement

AFD-0166-E

1. **Summary description:** A financial assistance program for land development.
- 2a. **Responsible organization:** Department of Agriculture and Marketing
- 2b. **Database contact:** Ms. Linda Burchell, Clerk Policy Administration, Extension Engineering - Administration, Extension, Services, Department of Agriculture and Marketing, P.O. Box 550, Truro, N.S. B2N 5E3
Phone: (902) 893-6575 *Facsimile:* (902) 893-0335
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- feet of (tile drainage installed, of surface ditching)
- acres of (land cleared, of blueberry land levelled)
- 3b. **Data acquisition methods:** Field measurements. Inspectors in field taking actual measurements.
- 3c. **Geographic coverage:** Nova Scotia.
- 3d. **Geographic units of measure:** County.
- 3e. **Period of record:** 1981 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Agriculture; Atlantic; Land use
11. **Additional information:** None.

Land Evaluation and Planning Service 1:10 000 Soil Surveys

SOI-0318-E

1. **Summary description:** An ARC/INFO coverage of approximately 72 farms in Nova Scotia.
- 2a. **Responsible organization:** Department of Agriculture and Marketing
- 2b. **Database contact:** Mr. Dennis Moerman, Soil Science and Land Evaluation Services, Plant Industry Branch, Department of Agriculture and Marketing, P.O. Box 550, Truro, N.S. B2N 5E3
Phone: (902) 893-6560 *Facsimile:* (902) 893-0244
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- soil polygons
- farm field boundaries (associated attributes (limited list))
- 3b. **Data acquisition methods:** Field surveys and aerial photo interpretation.
- 3c. **Geographic coverage:** Selected farms in Nova Scotia.
- 3d. **Geographic units of measure:** Northing and easting.

- 3e. **Period of record:** 1985 to present.
- 3f. **Update frequency:** New areas added annually.
- 4a. **Database storage format:** Hardcopy, tape drive, diskette.
- 4b. **Database computer environment:** VAX 3800, ARC/INFO GIS.
5. **Restrictions and conditions:** Permission of landowner required.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Detailed soil reports and legends for each farm.
8. **Languages:** English.
9. **User aids available:** Digital and hard copy data descriptions.
10. **Keywords:** Agriculture; Atlantic; Geographic Information System
11. **Additional information:** None.

Land Evaluation and Planning Service Site Database

SIT-0316-E

1. **Summary description:** An inventory containing physical site descriptions and laboratory soil physical analysis results.
- 2a. **Responsible organization:** Department of Agriculture and Marketing
- 2b. **Database contact:** Mr. Dennis Moerman, Soil Science and Land Evaluation Services, Plant Industry Branch, Department of Agriculture and Marketing, P.O. Box 550, Truro, N.S. B2N 5E3
Phone: (902) 893-6560 *Facsimile:* (902) 893-0244
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - field data (site description, soil profile description)
 - analytical data (PSD, pH, organic matter, CEC, bulk density)
- 3b. **Data acquisition methods:** Field surveys. Manual field data collection.
- 3c. **Geographic coverage:** Selected locations in Nova Scotia.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1985 to present.
- 3f. **Update frequency:** Annually (new sites added, no updates of existing data).
- 4a. **Database storage format:** Hardcopy, diskette, tape drive.
- 4b. **Database computer environment:** VAX 3800.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** LEAPS - SITESDATA user's manual (in development).
10. **Keywords:** Atlantic; Pedology; Soils
11. **Additional information:** Less than 5 percent of the database is now in digitized form. The process of data entry is expected to be completed by the end of 1994.

Nova Scotia Farm Well Water Quality Assurance Study Database

NSF-0317-E

1. **Summary description:** A database that contains all data on a random survey of rural well water quality in Kings County, Nova Scotia.
- 2a. **Responsible organization:** Department of Agriculture and Marketing

- 2b. **Database contact:** Mr. Dennis Moerman, Soil Science and Land Evaluation Services, Plant Industry Branch, Department of Agriculture and Marketing, P.O. Box 550, Truro, N.S. B2N 5E3
Phone: (902) 893-6560 *Facsimile:* (902) 893-0244
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - well characteristics
 - soil characteristics
 - analysis results (pesticides, nitrates, bacteria)
- 3b. **Data acquisition methods:** Field survey. Field collection of water samples.
- 3c. **Geographic coverage:** Kings County, Nova Scotia.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1989 to 1992.
- 3f. **Update frequency:** Will not be updated.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** VAX 3800.
5. **Restrictions and conditions:** Some data confidential. Permission of data centre required.
6. **Price information:** No charge.
7. **Corresponding printed sources:** *Nova Scotia Farm Well Water Quality Assurance Study - Interim Report and Final Report.*
8. **Languages:** English.
9. **User aids available:** Digital text file describing contents.
10. **Keywords:** Atlantic; Human Health; Water
11. **Additional information:** None.

Plant Tissue Database

PTD-0315-E

1. **Summary description:** An inventory of plant tissue analytical results.
- 2a. **Responsible organization:** Department of Agriculture and Marketing
- 2b. **Database contact:** Mr. Brian Robinson, Field Crop Advisory Services Section, Plant Industry Branch, Department of Agriculture and Marketing, P.O. Box 550, Truro, N.S. B2N 5E3
Phone: (902) 893-6553 *Facsimile:* (902) 893-0244
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - N, P, K, Ca, Mg, Fe, Mn, Cu, Zn, B
- 3b. **Data acquisition methods:** Lab instruments and manuals. Data input by departmental staff.
- 3c. **Geographic coverage:** Nova Scotia.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1989 to present.
- 3f. **Update frequency:** Ongoing.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** VAX 3100
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Lab reports are produced.
8. **Languages:** English.
9. **User aids available:** Menu system.
10. **Keywords:** Atlantic; Contaminants; Plants
11. **Additional information:** None.

Soil Fertility

SOI-0228-E



Department of Education

Maritime Breeding Bird Atlas

MBB-0001-E

1. **Summary description:** A database of soil analysis results.
- 2a. **Responsible organization:** Department of Agriculture and Marketing
- 2b. **Database contact:** Mr. Brian Robinson, Field Crop Advisory Services Section, Department of Agriculture and Marketing, Plant Industry Branch, P.O. Box 550, Truro, N.S. B2N 5E3
Phone: (902) 893-6553 *Facsimile:* (902) 893-0244
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - pH, LR, OM, P₂O₅, K₂O, Ca, Mg in soil.
- 3b. **Data acquisition methods:** Laboratory instruments and manual. Data input by departmental staff.
- 3c. **Geographic coverage:** Nova Scotia.
- 3d. **Geographic units of measure:** Fields.
- 3e. **Period of record:** 1981 to present.
- 3f. **Update frequency:** Ongoing.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** VAX 3100.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Lab reports are produced.
8. **Languages:** English.
9. **User aids available:** Menu system.
10. **Keywords:** Atlantic; Pedology; Soils
11. **Additional information:** None.

Water Analysis Database

WAD-0314-E

1. **Summary description:** An inventory of analytical data for water analysis.
- 2a. **Responsible organization:** Department of Agriculture and Marketing
- 2b. **Database contact:** Mr. Brian Robinson, Field Crop Advisory Services Section, Plant Industry Branch, Department of Agriculture and Marketing, P.O. Box 550, Truro, N.S. B2N 5E3
Phone: (902) 893-6553 *Facsimile:* (902) 893-0244
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - pH, NO₃⁻, SO₄²⁻, Cl⁻, Ca, Mg, Fe, Mn, Cu, Zn
 - alkalinity
 - hardness
- 3b. **Data acquisition methods:** Lab equipment and manual. Data input by departmental staff.
- 3c. **Geographic coverage:** Nova Scotia.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1989 to present.
- 3f. **Update frequency:** Ongoing.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** VAX 3100
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Lab reports are produced.
8. **Languages:** English.
9. **User aids available:** Menu system.
10. **Keywords:** Atlantic; Hydrology; Water quality
11. **Additional information:** None.

1. **Summary description:** To record summer bird distribution and abundance throughout the Maritime Provinces.
- 2a. **Responsible organization:** Department of Education
- 2b. **Database contact:** Mr. Fred Scott, Curatorial Assistant, Nova Scotia Museum, Department of Education, 1747 Summer Street, Halifax, N.S. B3H 3A6
Phone: (902) 424-7370 *Facsimile:* (902) 424-0560
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - breeding bird counts
 - geographic area
- 3b. **Data acquisition methods:** Monitoring and surveys. Field surveys by volunteers.
- 3c. **Geographic coverage:** Nova Scotia, New Brunswick, and Prince Edward Island.
- 3d. **Geographic units of measure:** 100 metre quadrants.
- 3e. **Period of record:** 1986 to 1990. Update not planned for the near future.
- 3f. **Update frequency:** Updated continuously but mostly in fall.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, Macintosh, custom software.
5. **Restrictions and conditions:** None.
6. **Price information:** None for the database, Atlas sells for \$29.95.
7. **Corresponding printed sources:** Published maps and Atlas.
8. **Languages:** English.
9. **User aids available:** README file included with database.
10. **Keywords:** Atlantic; Biology; Birds
11. **Additional information:**
 1. Ongoing records for all species over the entire Maritime Provinces including offshore islands.
 2. Hardcopy atlas only includes basic distribution information. Abundance data or more precise locations of birds within 100 metre quadrants available in the digital database.

Natural History Collection Files

NHC-0411-E

1. **Summary description:** Biological and physical inventories containing botany, zoology, geology and locality information of sections of Nova Scotia with emphasis on ecological reserves and parks.
- 2a. **Responsible organization:** Department of Education
- 2b. **Database contact:** Mr. Derek Davis, Nova Scotia Museum, Department of Education, 1747 Summer Street, Halifax, N.S. B3H 3A6
Phone: (902) 429-4610 *Facsimile:* (902) 424-0560
- 2c. **Access mechanisms:** Through contact person.
- 3a. **Parameters measured:**
 - physical (geological information, wetlands, geomorphology)
 - biological (wildlife distribution, plants, rare and endangered species)

- 3b. **Data acquisition methods:** Monitoring and surveys. Field and old collection data, data from maps and air photos.
- 3c. **Geographic coverage:** Nova Scotia including all land, marine and offshore marine areas.
- 3d. **Geographic units of measure:** Latitude and longitude, UTM coordinates.
- 3e. **Period of record:** 1850 to present.
- 3f. **Update frequency:** Updated annually or as time permits.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, Macintosh.
- 5. **Restrictions and conditions:** None.
- 6. **Price information:** No charge.
- 7. **Corresponding printed sources:** None.
- 8. **Languages:** English.
- 9. **User aids available:** None.
- 10. **Keywords:** Atlantic; Biodiversity; Wildlife
- 11. **Additional information:**
 - 1. Good baseline data from which to study changes in community structure.
 - 2. Approximately 500 species and locality records.

Nova Scotia Stranding Network

NSS-0002-E

- 1. **Summary description:** To monitor naturally occurring strandings of marine wildlife.
- 2a. **Responsible organization:** Department of Education
- 2b. **Database contact:** Mr. John Parsons, Nova Scotia Museum of Natural History, Department of Education, 1747 Summer Street, Halifax, N.S. B3H 3A6
Phone: (902) 469-2420 *Facsimile:* (902) 424-2420
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - biological (strand morphological records, photographs, site specific data, tissue samples)
- 3b. **Data acquisition methods:** Monitoring. Sightings and field collection.
- 3c. **Geographic coverage:** Nova Scotia and New Brunswick.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1989 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** Macintosh.
- 5. **Restrictions and conditions:** None.
- 6. **Price information:** May be some fees.
- 7. **Corresponding printed sources:** Several research papers available.
- 8. **Languages:** English (can be made available in French).
- 9. **User aids available:** None.
- 10. **Keywords:** Mammals; Marine; Wildlife
- 11. **Additional information:** None.



Department of Finance

Fuel Tax Database

FUE-0201-E

- 1. **Summary description:** The database consists of the monthly sales journal details of the participating Fuel Agents operating within the province of Nova Scotia.
- 2a. **Responsible organization:** Department of Finance
- 2b. **Database contact:** Mr. Rupert S. Hubley, Manager, Fuel and Tobacco Tax Division, Department of Finance, P.O. Box 187, Halifax, N.S. B3J 2N3
Phone: (902) 424-3190 *Facsimile:* (902) 424-0660
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - reporting period
 - fuel (type code, volume, use type)
 - tax paid amount
 - fuel grade (code, description)
- 3b. **Data acquisition methods:** Reporting. Agents monthly returns.
- 3c. **Geographic coverage:** Nova Scotia.
- 3d. **Geographic units of measure:** Fuel consumer.
- 3e. **Period of record:** 1992 to present.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Hardcopy, diskette, hard disk, magnetic tapes.
- 4b. **Database computer environment:** IBM mainframe. PC.
- 5. **Restrictions and conditions:** Upon approval of Divisional Manager.
- 6. **Price information:** No charge.
- 7. **Corresponding printed sources:** None.
- 8. **Languages:** English.
- 9. **User aids available:** None.
- 10. **Keywords:** Atlantic; Energy; Fuel
- 11. **Additional information:** Database used in the verification of Nova Scotia Fuel Agents tax exempt sales statements, agents monthly returns, vendor reports, and own consumption reports. Also utilized in the creation of customer purchase reports, bulk plant sales reports, year-to-date tax exempt sales reports, agent's revenue reports, schedule of litres reports, sales reported by oil company, schedule of motive fuel, revenue by source reports and the breakdown of tax refunds regarding fuel.



Department of Fisheries

Aquaculture Lease Information

ALI-0012-E

- 1. **Summary description:** An inventory to help administer the provincial aquaculture program.
- 2a. **Responsible organization:** Department of Fisheries

- 2b. Database contact:** Ms. Marilyn O'Neil, Aquaculture Administrator, Aquaculture and Inland Fisheries Division, Department of Fisheries, P.O. Box 2223, Halifax, N.S. B3J 3C4
Phone: (902) 424-4560 *Facsimile:* (902) 424-4671
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- physical (location of lease)
 - chemical (temperature, salinity)
 - biological (biological-biomass production, species grown)
 - economic (licenses, fees)
- 3b. Data acquisition methods:** Monitoring. Standard field sampling methods, some information obtained from lease applications.
- 3c. Geographic coverage:** Nova Scotia.
- 3d. Geographic units of measure:** Coastal waters.
- 3e. Period of record:** 1986 to present.
- 3f. Update frequency:** Continually.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, custom software.
- 5. Restrictions and conditions:** Business information is restricted.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** Several publications have made use of this data.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Aquaculture; Atlantic; Fish
- 11. Additional information:** Database information available at Nova Scotia Department of Fisheries offices in Halifax and Pictou.

Recreational Fisheries Catch Statistics

RFC-0390-E

- 1. Summary description:** To assess recreational fishing licensing trends and catch information by species and county.
- 2a. Responsible organization:** Department of Fisheries
- 2b. Database contact:** Mr. Alan McNeill, Fisheries Technician, Department of Fisheries, P.O. Box 700, Pictou N.S. B0K 1H0
Phone: (902) 485-7024 *Facsimile:* (902) 485-4014
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- licence (sales, stub returns)
 - fish (species, number caught, county fished)
- 3b. Data acquisition methods:** Licence stub returns. Voluntary return of licence stubs by fishermen.
- 3c. Geographic coverage:** Nova Scotia.
- 3d. Geographic units of measure:** County.
- 3e. Period of record:** 1970 to present. Data also available for 1966 and 1967.
- 3f. Update frequency:** Annually.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, FOCUS.
- 5. Restrictions and conditions:** None.
- 6. Price information:** \$45.00 per hour.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Atlantic; Fish; Fisheries
- 11. Additional information:** None.

Trout Management System

TMS-0013-E

- 1. Summary description:** Information related to lake surveys, stream surveys and trout stocking in Nova Scotia.
- 2a. Responsible organization:** Department of Fisheries
- 2b. Database contact:** Mr. Alan McNeill, Fisheries Technician, Department of Fisheries, P.O. Box 700, Pictou N.S. B0K 1H0
Phone: (902) 485-7024 *Facsimile:* (902) 485-4014
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- lake bathymetry
 - fish species
 - habitats
 - physical parameters (temperature, water quality, watershed, land use, recreation, dissolved oxygen, pH)
- 3b. Data acquisition methods:** Monitoring, mapping and research. On-site surveys.
- 3c. Geographic coverage:** Nova Scotia at a scale of 1:50 000.
- 3d. Geographic units of measure:** Latitude and longitude.
- 3e. Period of record:** Records generally available for summer and fall.
- 3f. Update frequency:** Annually.
- 4a. Database storage format:** Hardcopy maps, diskette.
- 4b. Database computer environment:** PC, FOCUS.
- 5. Restrictions and conditions:** None.
- 6. Price information:** \$45.00 per hour.
- 7. Corresponding printed sources:** Annual report.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Atlantic; Ecology; Fish
- 11. Additional information:**
1. Approximately 1,500 primary records of lake surveys. 27,000 individual stocking records.
 2. Each record has 93 fields or approximately 950 characters per record.



Department of Health

Chemical Quality - Municipal Water Supplies

CQM-0109-E

- 1. Summary description:** An inventory to monitor the quality of all municipal water supplies in Nova Scotia. Chemical analyses are carried out on samples of raw data before any treatment and on treated water from the distribution system. Routine sampling is also carried out for YOC and THM contaminants in municipal water supplies.
- 2a. Responsible organization:** Department of Health
- 2b. Database contact:** Mr. Don Feldman, Halifax Regional Health Unit, Department of Health, 3rd Floor, Sunnyside Place, 1600 Bedford Highway, Bedford, N.S. B4A 1E8
Phone: (902) 424-8100 *Facsimile:* (902) 424-0542
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- complete chemical analysis
- 3b. Data acquisition methods:** Monitoring. Sampled by Department of Health officials according to approved methods.

- 3c. **Geographic coverage:** Nova Scotia.
- 3d. **Geographic units of measure:** Municipalities.
- 3e. **Period of record:** 1974 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE III+.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Several research papers.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Hydrology; Water quality
11. **Additional information:** Long term data is used to determine trends in municipal water quality.

Naturally Occurring Uranium and Arsenic in Groundwater in Nova Scotia

NOU-0394-E

1. **Summary description:** To identify areas within Nova Scotia where wells are likely to contain uranium and arsenic.
- 2a. **Responsible organization:** Department of Health
- 2b. **Database contact:** Mr. Peter Casey, Director, Public Health Services Division, Department of Health, P.O. Box 488, Halifax, N.S. B3J 2R8
Phone: (902) 424-4300 *Facsimile:* (902) 424-0558
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- arsenic
 - uranium
 - well location
- 3b. **Data acquisition methods:** Reports. Manuscripts provided by Nova Scotia Department of Health.
- 3c. **Geographic coverage:** Nova Scotia.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** Maps published in 1991.
- 3f. **Update frequency:** Will not be updated.
- 4a. **Database storage format:** Hardcopy maps (1:1 710 000).
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Contaminants; Water quality
11. **Additional information:** None.

Nova Scotia Municipal Water Supplies - Treatment Processes

MWS-0319-E

1. **Summary description:** Summary tables listing all the municipal water supplies and the type of water treatment processes conducted at each system in Nova Scotia.
- 2a. **Responsible organization:** Department of Health
- 2b. **Database contact:** Mr. Don Feldman, Halifax Regional Health Unit, Department of Health, 3rd Floor, Sunnyside Place, 1600 Bedford Highway, Bedford, N.S. B4A 1E8
Phone: (902) 424-8100 *Facsimile:* (902) 424-0542
- 2c. **Access mechanisms:** Through the responsible organization.

- 3a. **Parameters measured:**
- name
 - water (source, treatment process)
- 3b. **Data acquisition methods:** Monitoring. Data collected by departmental staff.
- 3c. **Geographic coverage:** Nova Scotia.
- 3d. **Geographic units of measure:** Municipality.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** Every five years.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Tables.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Engineering; Water
11. **Additional information:** None.

Potential Limitations for On-Site Sewage Disposal (Selected Areas of Nova Scotia)

PLI-0324-E

1. **Summary description:** A database to indicate areas where potential limitations for on-site sewage disposal are severe, moderate and low based on a combination of factors including soil drainage, depth and slope.
- 2a. **Responsible organization:** Department of Health
- 2b. **Database contact:** Mr. Peter Casey, Director, Public Health Services Division, Department of Health, P.O. Box 488, Halifax, N.S. B3J 2R8
Phone: (902) 424-4300 *Facsimile:* (902) 424-0558
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- soil (drainage, depth, slope)
- 3b. **Data acquisition methods:** Reports. Information was derived from the Nova Scotia Department of Agriculture and Marketing.
- 3c. **Geographic coverage:** Nova Scotia at a scale of 1:50 000.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** Map published in 1986.
- 3f. **Update frequency:** Will not be updated.
- 4a. **Database storage format:** Hardcopy maps.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Maps.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Geography; Waste
11. **Additional information:** None.

Potential Occurrence of Radon Gas in Nova Scotia

RAD-0328-E

1. **Summary description:** A map that shows areas in Nova Scotia where naturally deposited, slightly radioactive soils are most likely to enhance radon emission.
- 2a. **Responsible organization:** Department of Health

- 2b. Database contact:** Mr. Peter Casey, Director, Public Health Services Division, Department of Health, P.O. Box 488, Halifax, N.S. B3J 2R8
Phone: (902) 424-4300 *Facsimile:* (902) 424-0558
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - soils
- 3b. Data acquisition methods:** Reports. Manuscripts provided by the Nova Scotia Department of Health.
- 3c. Geographic coverage:** Nova Scotia.
- 3d. Geographic units of measure:** Latitude and longitude.
- 3e. Period of record:** Map published in 1991.
- 3f. Update frequency:** Will not be updated.
- 4a. Database storage format:** Hardcopy map (1:1 710 000).
- 4b. Database computer environment:** Not applicable.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Atlantic; Geology; Health
- 11. Additional information:** None.

Private Water Supplies - Arsenic Concentrations

PWS-0321-E

- 1. Summary description:** A database of arsenic concentrations from water samples collected from private water supplies.
- 2a. Responsible organization:** Department of Health
- 2b. Database contact:** Mr. Peter Casey, Director, Environmental Health, Public Health Services Division, Nova Scotia Department of Health, P.O. Box 488, Halifax, N.S. B3J 2R8
Phone: (902) 424-4300 *Facsimile:* (902) 424-0558
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - arsenic
 - well location
- 3b. Data acquisition methods:** Field sampling. Water samples collected by homeowners.
- 3c. Geographic coverage:** Halifax County, Nova Scotia.
- 3d. Geographic units of measure:** Well location.
- 3e. Period of record:** 1987 to present.
- 3f. Update frequency:** Daily.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, DBASE.
- 5. Restrictions and conditions:** Some restrictions may apply.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Atlantic; Contaminants; Water quality
- 11. Additional information:** None.

Swimming Area Bacteriological Quality - Halifax County

SAB-0320-E

- 1. Summary description:** A database containing bacteriological sampling results from approximately 75 swimming areas within Halifax County.
- 2a. Responsible organization:** Department of Health
- 2b. Database contact:** Mr. Don Feldman, Halifax Regional Health Unit, Department of Health, 3rd Floor, Sunnyside Place, 1600 Bedford Highway, Bedford, N.S. B4A 1E8
Phone: (902) 424-8100 *Facsimile:* (902) 424-0542
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - chemical analysis
- 3b. Data acquisition methods:** Field sampling. Sampling by departmental staff.
- 3c. Geographic coverage:** Halifax County, Nova Scotia.
- 3d. Geographic units of measure:** Site.
- 3e. Period of record:** 1974 to present.
- 3f. Update frequency:** Daily during swimming season.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, DBASE.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Atlantic; Contaminants; Water quality
- 11. Additional information:** None.

Vital Statistics Registry

VSR-0174-E

- 1. Summary description:** The Vital Statistics Registry is a central office for the collection of all births, deaths and marriages occurring in the province of Nova Scotia.
- 2a. Responsible organization:** Department of Health
- 2b. Database contact:** Ms. Betty Etter, Director, Vital Statistics, Department of Health, P.O. Box 157, Halifax, N.S. B3J 2M9
Phone: (902) 424-2599 *Facsimile:* (902) 424-0678
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - births
 - deaths
- 3b. Data acquisition methods:** Monitoring. Data input by departmental staff.
- 3c. Geographic coverage:** Nova Scotia.
- 3d. Geographic units of measure:** Not applicable.
- 3e. Period of record:** Birth and death records completed since October 1, 1908.
- 3f. Update frequency:** Continually.
- 4a. Database storage format:** Hardcopy.
- 4b. Database computer environment:** Not applicable.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Atlantic; Health; Human Health

- 11. Additional information:** Civil records of births and deaths were originally recorded from 1864 to 1876 inclusive while marriage records started in the late 1700's. These old records have been sent to the Public Archives of Nova Scotia.

West River Water Sampling Program (Pictou County) - 1991, 1992

WRW-0323-E

- 1. Summary description:** Sampling programs for fecal coliform carried out to provide water quality data regarding recreational use of the rivers and to identify point sources and bacteriological contaminants.
- 2a. Responsible organization:** Department of Health
- 2b. Database contact:** Mr. D.M. Reid, Cobequid Health Unit, Department of Health, P.O. Box 295, Truro, N.S. B2N 5C1
Phone: (902) 893-5820 Facsimile: (902) 893-5839
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- chemical analysis
- 3b. Data acquisition methods:** Field sampling. Data collected by departmental staff.
- 3c. Geographic coverage:** Selected points on the West River (Pictou County) between Salt Springs and Patterson Point.
- 3d. Geographic units of measure:** Not applicable.
- 3e. Period of record:** 1991 to 1992.
- 3f. Update frequency:** Will not be updated.
- 4a. Database storage format:** Hardcopy.
- 4b. Database computer environment:** Not applicable.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** Reports. See also the *Pictou Harbour Environmental Action Plan and Sampling Program on East, Middle Rivers and Pictou Harbour*.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Atlantic; Contaminants; Water quality
- 11. Additional information:** None.



Department of Municipal Affairs

Base Mapping - Nova Scotia Department of Municipal Affairs

BAS-0326-E

- 1. Summary description:** Base maps are prepared specifically for the Nova Scotia Department of Municipal Affairs projects, such as municipal planning exercises, sewer and water inventory, downtown facilities inventory.
- 2a. Responsible organization:** Department of Municipal Affairs
- 2b. Database contact:** Mr. Jim Drolet, Community Planning, Department of Municipal Affairs, Maritime Centre, P.O. Box 216, 1505 Barrington Street, 13th Floor, Halifax, N.S. B3J 2M4
Phone: (902) 424-7416 Facsimile: (902) 424-0531
Ms. Karen Ramsland Phone: (902) 424-7798
Mr. Mark Poirier Phone: (902) 424-7922
- 2c. Access mechanisms:** Through the responsible organization.

- 3a. Parameters measured:**
- NTS map sheets
- 3b. Data acquisition methods:** Survey. Prepared by departmental staff photomechanically reducing existing mapping.
- 3c. Geographic coverage:** Nova Scotia.
- 3d. Geographic units of measure:** Latitude and longitude, NTS mapsheets.
- 3e. Period of record:** 1970 to 1990.
- 3f. Update frequency:** Will not be updated.
- 4a. Database storage format:** Hardcopy, maps.
- 4b. Database computer environment:** Not applicable.
- 5. Restrictions and conditions:** None.
- 6. Price information:** \$5.00 per map.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Land use; Geography; Atlantic
- 11. Additional information:** None.

Flood Risk Areas Under Canada/Nova Scotia Flood Damage Reduction Program

FRA-0325-E

- 1. Summary description:** Contains detailed mapping of floodways and flood plains as determined under Canada/Nova Scotia Flood Damage Reduction Program and an overlay of municipally planned areas and municipal zoning where in place.
- 2a. Responsible organization:** Department of Municipal Affairs
- 2b. Database contact:** Mr. Jim Drolet, Community Planning, Department of Municipal Affairs, P.O. Box 216, 1505 Barrington Street, Halifax, N.S. B3J 2M4
Phone: (902) 424-7416 Facsimile: (902) 424-0531
Ms. Karen Ramsland Phone: (902) 424-7798
Mr. Mark Poirier Phone: (902) 424-7922
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- mapping (floodways, flood plains)
- 3b. Data acquisition methods:** Reports. Data originating from the Environment Canada and the Nova Scotia Department of the Environment.
- 3c. Geographic coverage:** East River, Antigonish, Little Sackville River and Bedford/Sackville River - 1:2 000, Truro - 1:2 400.
- 3d. Geographic units of measure:** UTM coordinates, latitude and longitude.
- 3e. Period of record:** 1984 to 1988.
- 3f. Update frequency:** Will not be updated.
- 4a. Database storage format:** Hardcopy maps.
- 4b. Database computer environment:** Not applicable.
- 5. Restrictions and conditions:** None.
- 6. Price information:** \$5.00 per map.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Atlantic; Hydrology; Natural disasters
- 11. Additional information:** There are approximately 100 maps in this collection.

Nova Scotia Property Database

NSP-0028-E

1. **Summary description:** A database containing property parcel boundaries that are linked to attribute files describing ownership information and address.
- 2a. **Responsible organization:** Department of Municipal Affairs
- 2b. **Database contact:** Mr. Andrew Kenny, Programmer Analyst, Land Information Management Services Division, Department of Municipal Affairs, 1660 Hollis Street, Halifax, N.S. B3J 1V7
Phone: (902) 424-3127 *Facsimile:* (902) 424-5872
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - land parcels
 - land ownership
 - administration boundaries
 - addresses
- 3b. **Data acquisition methods:** Monitoring land ownership transactions, mapping. Legal surveys, registered documents.
- 3c. **Geographic coverage:** Complete coverage of the eastern two thirds of Nova Scotia.
- 3d. **Geographic units of measure:** Property Identification Number, ATS77 Datum, 3 degree Modified Transverse Mercator Projection.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, CARIS GIS, LORIS (Land Ownership Registry Index System), FOXPRO.
5. **Restrictions and conditions:** Unknown.
6. **Price information:** Price list available.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Geographic Information System; Landscape
11. **Additional information:**
 1. Approximately 7,500 transactions recorded per year.
 2. Of the 500,000 land parcels in Nova Scotia, approximately 375,000 are mapped; the remaining 125,000 are located in the western counties of Nova Scotia.
 3. There are Land Information Centres in Halifax, New Glasgow, Sydney and Lawrencetown.

Rural Settlement Pattern, Settlement Record and Agricultural Land Use

RSP-0395-E

1. **Summary description:** A detailed inventory of agricultural field usage and building and other land usage.
- 2a. **Responsible organization:** Department of Municipal Affairs
- 2b. **Database contact:** Mr. Jim Drolet, Community Planning, Department of Municipal Affairs, P.O. Box 216, Halifax, N.S. B3J 2M4
Phone: (902) 424-7416 *Facsimile:* (902) 424-0531
Ms. Karen Ramsland *Phone:* (902) 424-7798
Mr. Mark Poirier *Phone:* (902) 424-7922
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - building (counts)
 - land use (hectares)

- 3b. **Data acquisition methods:** Aerial photography, field surveys. Air photo interpretation and consultation with farmers when necessary.
- 3c. **Geographic coverage:** Nova Scotia at scales of 1:10 000 and 1:50 000.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1979 to 1985.
- 3f. **Update frequency:** Not applicable.
- 4a. **Database storage format:** Hardcopy maps.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Geography; Land use
11. **Additional information:** An alphanumeric database is available and quantifies hectares and building/land use counts.

Sewer and Water Lines Inventory

SWL-0396-E

1. **Summary description:** To provide an inventory of sewer and water lines, locations and sites, pumping stations, proposed sewer and water systems, and septic tank limitations.
- 2a. **Responsible organization:** Department of Municipal Affairs
- 2b. **Database contact:** Mr. Jim Drolet, Community Planning, Department of Municipal Affairs, P.O. Box 216, Halifax, N.S. B3J 2M4
Phone: (902) 424-7416 *Facsimile:* (902) 424-0531
Ms. Karen Ramsland *Phone:* (902) 424-7798
Mr. Mark Poirier *Phone:* (902) 424-7922
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - sewer (lines, locations, sites)
 - pumping stations
- 3b. **Data acquisition methods:** Reports and surveys by departmental staff and outside consultants.
- 3c. **Geographic coverage:** Specific areas in Nova Scotia at a scale of 1:5 000.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1978 to 1981.
- 3f. **Update frequency:** Not applicable.
- 4a. **Database storage format:** Hardcopy maps.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Engineering; Water
11. **Additional information:** The inventory contains approximately 50 sewer and water maps.

Watersheds and Watershed Studies

WWS-0327-E

1. **Summary description:** A database used to document watershed boundaries, prescribed and municipal water supply watersheds.
- 2a. **Responsible organization:** Department of Municipal Affairs

- 2b. Database contact:** Ms. Karen Ramsland, Community Planning, Department of Municipal Affairs, 13th Floor, Maritime Centre, P.O. Box 216, 1505 Barrington Street, Halifax, N.S. B3J 2M4
Phone: (902) 424-7798 *Facsimile:* (902) 424-0531
 or Mr. Al Simpson *Phone:* (902) 424-7416
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - watershed boundaries
- 3b. Data acquisition methods:** Reports. Sampling by Nova Scotia Department of the Environment.
- 3c. Geographic coverage:** Nova Scotia.
- 3d. Geographic units of measure:** Latitude and longitude, watershed.
- 3e. Period of record:** Not applicable.
- 3f. Update frequency:** Ongoing.
- 4a. Database storage format:** Hardcopy maps.
- 4b. Database computer environment:** Not applicable.
- 5. Restrictions and conditions:** None.
- 6. Price information:** \$5.00 per map.
- 7. Corresponding printed sources:** Maps.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Geography; Water; Watersheds
- 11. Additional information:**
 1. These maps result from more than one project. For more details, contact the Nova Scotia Department of Municipal Affairs.
 2. There are several hundred maps in this collection.



Department of Natural Resources

Biophysical Classification

BC-0403-E

- 1. Summary description:** Database designed for forest resource planning.
- 2a. Responsible organization:** Department of Natural Resources
- 2b. Database contact:** Mr. Ken Snow, Planning and Mensuration Division, Department of Natural Resources, P.O. Box 68, 523 Prince Street, Truro, N.S. B2N 5B8
Phone: (902) 893-5657 *Facsimile:* (902) 893-6102
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - landform (topographic pattern, slope, drainage)
 - parent rock material
 - soil (type, depth)
- 3b. Data acquisition methods:** Aerial photography. Information interpreted by departmental staff.
- 3c. Geographic coverage:** Nova Scotia.
- 3d. Geographic units of measure:** NAD28, UTM coordinates, ATS77, 3 degree Modified Transverse Mercator Projection.
- 3e. Period of record:** Not applicable.
- 3f. Update frequency:** None planned.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** SUN, ARC/INFO GIS.
- 5. Restrictions and conditions:** None.

- 6. Price information:** There is a charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Atlantic; Ecology; Geographic Information System
- 11. Additional information:** Digital coverage of Nova Scotia to be completed by the end of 1996.

Cadastral Data Capture

CAD-0017-E

- 1. Summary description:** An inventory of Crown Land property to aid forestry planning.
- 2a. Responsible organization:** Department of Natural Resources
- 2b. Database contact:** Mr. Charlie Dill, Department of Natural Resources, Torrington Place, 780 Windmill Road, Halifax, N.S. B3B 1T3
Phone: (902) 424-8604 *Facsimile:* (902) 424-3173
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - crown land properties (line, post, parcel)
 - large private owners (name, address, parcel location)
 - small private lots under Forest Management Agreement (name, address, parcel location)
- 3b. Data acquisition methods:** Mapping. Survey plan; LRIS property mapping; owner mapping.
- 3c. Geographic coverage:** Most of Nova Scotia (to be completed by end of 1996).
- 3d. Geographic units of measure:** ATS77, 3 degree Modified Transverse Mercator Projection.
- 3e. Period of record:** 1985 to present.
- 3f. Update frequency:** Annually.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** SUN, ARC/INFO GIS.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Forestry; Geographic Information System; Landscape
- 11. Additional information:** None.

Drillholes Database

DRI-0322-E

- 1. Summary description:** The drillholes database contains information on 18,000 diamond drill holes in Nova Scotia, most of which were drilled for the purpose of mineral and petroleum exploration.
- 2a. Responsible organization:** Department of Natural Resources
- 2b. Database contact:** Mr. Norman A. Lytle, Supervisor, Public Information Services, Department of Natural Resources, 3rd Floor, Founders Square, P.O. Box 698, 1701 Hollis Street, Halifax, N.S. B3J 2T9
Phone: (902) 424-8144 *Facsimile:* (902) 424-7735
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - location (place, county, map sheet, coordinates)
 - depth (of hole, overburden)
 - exploration company (year drilled)
 - mineralization

- 3b. Data acquisition methods:** Reports, monitoring. Mineral and petroleum exploration industry assessment reports and government scientific reports.
- 3c. Geographic coverage:** Nova Scotia.
- 3d. Geographic units of measure:** Latitude and longitude.
- 3e. Period of record:** Late 1800's/early 1900's to 1987.
- 3f. Update frequency:** Continually.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, FOXPRO.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Atlantic; Exploration; Mining
- 11. Additional information:** None.

Forest Data Base

NSF-0018-E

- 1. Summary description:** An inventory of tree species, height, diameter, distribution to aid resource planning.
- 2a. Responsible organization:** Department of Natural Resources
- 2b. Database contact:** Mr. Fred Wellings, or, Mr. Ken Snow, Forest Resources Planning and Mensuration, Department of Natural Resources, P.O. Box 68, Truro, N.S. B2N 5B8
Phone: (902) 893-5710 Facsimile: (902) 893-6102
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- species (height, crown closure, basal area volume, average diameter, diameter distribution)
- 3b. Data acquisition methods:** Monitoring. Photo interpretation of 1:10 000 true colour airphotos. Data check using field plots.
- 3c. Geographic coverage:** Most of Nova Scotia (to be completed by 1996).
- 3d. Geographic units of measure:** ATS77, 3 degree Modified Transverse Mercator Projection.
- 3e. Period of record:** 1985 to present.
- 3f. Update frequency:** Annually.
- 4a. Database storage format:** Hardcopy maps, diskette.
- 4b. Database computer environment:** SUN, ARC/INFO GIS.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** Photo Interpretation Specifications. Forestry Database Specifications - NSFDB.
- 10. Keywords:** Atlantic; Forestry; Geographic Information System
- 11. Additional information:** None.

Forest Production Statistics

FPS-0097-E

- 1. Summary description:** An inventory of forest production to aid forestry planning.
- 2a. Responsible organization:** Department of Natural Resources
- 2b. Database contact:** Mr. Bill Barron, Department of Natural Resources, P.O. Box 68, Truro, N.S. B2N 5B8
Phone: (902) 893-5712 Facsimile: (902) 893-6102
- 2c. Access mechanisms:** Through the responsible organization.

- 3a. Parameters measured:**
- forest production in cubic metres (county, ownership class, product, species group)
- 3b. Data acquisition methods:** Survey. Canvas of forest production mills and large land owners.
- 3c. Geographic coverage:** Nova Scotia.
- 3d. Geographic units of measure:** Cubic metres.
- 3e. Period of record:** 1935 to 1991.
- 3f. Update frequency:** Annually.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, FOCUS.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** *Nova Scotia Forest Production Survey*, 1992.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Atlantic; Forestry; Trees
- 11. Additional information:** None.

Forest Treatment Database

FTD-0404-E

- 1. Summary description:** An inventory of new road and silviculturally treated areas. Database used to update the Forest Database.
- 2a. Responsible organization:** Department of Natural Resources
- 2b. Database contact:** Mr. Ken Snow, Planning and Mensuration Division, Department of Natural Resources, P.O. Box 68, 523 Prince Street, Truro, N.S. B2N 5B8
Phone: (902) 893-5657 Facsimile: (902) 893-6102
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- cutovers
- silviculturally treated areas
- new roads
- 3b. Data acquisition methods:** Remote sensing, field surveys. Information interpreted by departmental staff.
- 3c. Geographic coverage:** Nova Scotia.
- 3d. Geographic units of measure:** ATS77, 3 degree Modified Transverse Mercator Projection.
- 3e. Period of record:** Not applicable.
- 3f. Update frequency:** Annually.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** SUN, ARC/INFO GIS.
- 5. Restrictions and conditions:** None.
- 6. Price information:** There is a charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Atlantic; Forestry; Geographic Information System
- 11. Additional information:** Digital coverage of Nova Scotia to be completed by the end of 1996.

GeoQuest

GQ-0398-E

- 1. Summary description:** GeoQuest is a digital database directory providing access, searching, retrieval and output from a set of digital mineral resource databases and a set of digital map files.
- 2a. Responsible organization:** Department of Natural Resources

- 2b. Database contact:** Mr. Norman A. Lyttle, Supervisor, Public Information Services, Department of Natural Resources, P.O. Box 698, 3rd Floor, 1701 Hollis Street, Halifax, N.S. B3J 2T9
Phone: (902) 424-8144 Facsimile: (902) 424-7735
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- digital (database files, map files)
- 3b. Data acquisition methods:** Various databases and maps (see 11). GeoQuest maintained by departmental staff.
- 3c. Geographic coverage:** Nova Scotia.
- 3d. Geographic units of measure:** Latitude and longitude.
- 3e. Period of record:** Various.
- 3f. Update frequency:** Ongoing.
- 4a. Database storage format:** Hard disk, diskette.
- 4b. Database computer environment:** PC, INFOCUS.
- 5. Restrictions and conditions:** Permission required to republish data from the database.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Atlantic; Geographic Information System; Mining
- 11. Additional information:** The databases that can be accessed through GeoQuest are: Drillholes; Metallic Miner Occurrences; Geoscience Maps; NovaScan (the Nova Scotia component of GEOSCAN). The digital map files include: Geology of Nova Scotia (1:500 000); EMR topographic files for Nova Scotia (1:250 000); Limited Use and Protected Lands Map of Nova Scotia (1:50 000); Watershed Boundaries of Nova Scotia (1:50 000).

Geoscience Maps Database

GMD-0399-E

- 1. Summary description:** To provide information on geoscience maps of Nova Scotia.
- 2a. Responsible organization:** Department of Natural Resources
- 2b. Database contact:** Mr. Norman A. Lyttle, Supervisor, Public Information Services, Department of Natural Resources, P.O. Box 698, 3rd Floor, 1701 Hollis Street, Halifax, N.S. B3J 2T9
Phone: (902) 424-8144 Facsimile: (902) 424-7735
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- geoscience maps
- 3b. Data acquisition methods:** Maps and reports. Information compiled by departmental staff using geological, geochemical and geophysical maps from in-house and the Geological Survey of Canada.
- 3c. Geographic coverage:** Nova Scotia.
- 3d. Geographic units of measure:** Latitude and longitude.
- 3e. Period of record:** Not applicable.
- 3f. Update frequency:** Annually.
- 4a. Database storage format:** Diskette.
- 4b. Database computer environment:** PC, FOXPRO, DBASE.
- 5. Restrictions and conditions:** Permission required to republish data from the database.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Atlantic; Geology; Minerals

- 11. Additional information:** The database contains over 700 records.

Metallic Mineral Occurrences Database

MMO-0400-E

- 1. Summary description:** To provide information on metallic minerals found in Nova Scotia.
- 2a. Responsible organization:** Department of Natural Resources
- 2b. Database contact:** Mr. Norman A. Lyttle, Supervisor, Public Information Services, Department of Natural Resources, P.O. Box 698, 3rd Floor, 1701 Hollis Street, Halifax, N.S. B3J 2T9
Phone: (902) 424-8144 Facsimile: (902) 424-7735
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- location (place, county, map sheet, coordinates)
- mineralization
- geological description
- age
- host rock
- stratigraphy
- assays
- 3b. Data acquisition methods:** Information compiled by departmental staff using mineral exploration assessment reports and maps, scientific reports and maps and field surveys.
- 3c. Geographic coverage:** Nova Scotia.
- 3d. Geographic units of measure:** Latitude and longitude.
- 3e. Period of record:** Not applicable.
- 3f. Update frequency:** Ongoing.
- 4a. Database storage format:** Diskette.
- 4b. Database computer environment:** PC, FOXPRO.
- 5. Restrictions and conditions:** Permission required to republish data from the database.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Atlantic; Geology; Metals
- 11. Additional information:** The database contains over 300 records.

Nova Scotia Digital Geochemical Atlas

NSG-0021-E

- 1. Summary description:** An inventory of mineral, geological, and environmental exploration.
- 2a. Responsible organization:** Department of Natural Resources
- 2b. Database contact:** Mr. Peter Rogers, Department of Natural Resources, P.O. Box 698, Halifax, N.S. B3J 2T9
Phone: (902) 424-4700 Facsimile: (902) 424-0527, or, Ms. Valerie Brisco
Phone: (902) 424-8633
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- sediments
- water
- trace metals
- geology
- hazardous materials
- specific data elements available on request
- 3b. Data acquisition methods:** Mapping, research and development, industrial/monitoring. On-site surveys and geochemical conventions.

- 3c. **Geographic coverage:** Nova Scotia and offshore areas.
- 3d. **Geographic units of measure:** Northing and easting, latitude and longitude.
- 3e. **Period of record:** 1956 to present.
- 3f. **Update frequency:** Irregularly, usually annually.
- 4a. **Database storage format:** Hardcopy maps, diskette.
- 4b. **Database computer environment:** PC, SPANS GIS, DATA-MINE.
- 5. **Restrictions and conditions:** None.
- 6. **Price information:** Transcription fee of \$10.00 per survey geochemistry.
- 7. **Corresponding printed sources:** Several papers, reports, abstracts.
- 8. **Languages:** English.
- 9. **User aids available:** None.
- 10. **Keywords:** Atlantic; Geochemistry; Geographic Information System
- 11. **Additional information:** None.

Nova Scotia Forest Inventory

NSF-0020-E

- 1. **Summary description:** A forest inventory to monitor forest growth.
- 2a. **Responsible organization:** Department of Natural Resources
- 2b. **Database contact:** Mr. Fred Wellings, Department of Natural Resources, P.O. Box 68, Truro, N.S. B2N 5B8
Phone: (902) 893-5710 *Facsimile:* (902) 893-6102
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - land use
 - tree (species, volumes, growth)
 - forest products
- 3b. **Data acquisition methods:** Monitoring. Photo interpretation and randomly located ground sample plots.
- 3c. **Geographic coverage:** Nova Scotia.
- 3d. **Geographic units of measure:** Randomly located ground sample plots.
- 3e. **Period of record:** 1965 to present.
- 3f. **Update frequency:** Inventory every 10 years, growth plots every 5 years.
- 4a. **Database storage format:** Hardcopy, maps.
- 4b. **Database computer environment:** IBM mainframe.
- 5. **Restrictions and conditions:** None.
- 6. **Price information:** No charge.
- 7. **Corresponding printed sources:** Reports and maps.
- 8. **Languages:** English.
- 9. **User aids available:** None.
- 10. **Keywords:** Atlantic; Forestry; Trees
- 11. **Additional information:** Ten percent of Nova Scotia re-inventoried every year.

Nova Scotia Peatlands Inventory

NSP-0022-E

- 1. **Summary description:** An inventory of Nova Scotia's peat resources.
- 2a. **Responsible organization:** Department of Natural Resources
- 2b. **Database contact:** Mr. Lorne MacNeil, Coal Engineer, Energy Resources Division, Department of Natural Resources, P.O. Box 698, Halifax, N.S. B3J 2T9
Phone: (902) 424-8126 *Facsimile:* (902) 424-7735

- 2c. **Access mechanisms:** Through the responsible organization.

3a. Parameters measured:

- peatland (type, surface morphology, peat type, cross section, survey of bog, drainage, location, access recommended usage, peat volumes, peat physical and chemical analysis)
- biological (deposit surface vegetation classification, peat typing by biological constituents and humification)

- 3b. **Data acquisition methods:** Survey, mapping and classification. Air photos, field surveys, grid sampling of deposits (500 m grid per 100 m sample intervals) in conjunction with airphoto interpretation and mapping.

- 3c. **Geographic coverage:** Nova Scotia.

- 3d. **Geographic units of measure:** Longitude and latitude, ASL elevation.

- 3e. **Period of record:** 1979 to 1986.

- 3f. **Update frequency:** Will not be updated.

- 4a. **Database storage format:** Hardcopy maps, tape, diskette.

- 4b. **Database computer environment:** PC, DBASE III+.

- 5. **Restrictions and conditions:** None.

- 6. **Price information:** Not established.

- 7. **Corresponding printed sources:** A.R. Anderson and W.A. Broughm, *Evaluation of Nova Scotia's Peatland Resources*, 1988, Nova Scotia Department of Mines and Energy, Bulletin #6.

- 8. **Languages:** English.

- 9. **User aids available:** DBASE III+ user's interface.

- 10. **Keywords:** Atlantic; Ecology; Habitats

11. Additional information:

- 1. Includes 267 surveyed deposits; 7,604 survey sites; approximately 800,000 records.
- 2. No user interface to allow easy access to data.
- 3. Data exists in the form of raw data files and some summary data files. Most of the results are in the form of summary/report text files.

Nova Scotia Wetlands Atlas

NSW-0401-E

- 1. **Summary description:** To depict important freshwater wetlands and coastal wildlife habitats in Nova Scotia.
- 2a. **Responsible organization:** Department of Natural Resources
- 2b. **Database contact:** Mr. Randy Milton, Wildlife Division, Department of Natural Resources, 136 Exhibition Street, Kentville, N.S. B4N 4E5
Phone: (902) 679-6091 *Facsimile:* (902) 679-6176
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - wetlands
 - coastal wildlife habitats
- 3b. **Data acquisition methods:** Maps and reports. Information compiled by departmental staff.
- 3c. **Geographic coverage:** Nova Scotia.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1990 to 1991.
- 3f. **Update frequency:** Not applicable.
- 4a. **Database storage format:** Hard disk.
- 4b. **Database computer environment:** MICROVAX II, CARIS GIS.
- 5. **Restrictions and conditions:** None.
- 6. **Price information:** No charge.
- 7. **Corresponding printed sources:** None.
- 8. **Languages:** English.

9. **User aids available:** None.
10. **Keywords:** Ecology; Landscape; Wetlands; Geographic Information System
11. **Additional information:** None.

Wildlife Habitats - Other

WHO-0023-E

1. **Summary description:** An inventory of the locations and major features (topography, vegetation and wildlife) of wildlife habitats and forest habitats for moose and deer, endangered species, eagles and colonial birds. This information is to be used for impact assessments and habitat suitability assessments.
- 2a. **Responsible organization:** Department of Natural Resources
- 2b. **Database contact:** Mr. A. Duke, Wildlife Division, Department of Natural Resources, 136 Exhibition Street, Kentville, N.S. B4N 4E5
Phone: (902) 679-6091 *Facsimile:* (902) 679-6176
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- location
 - topography
 - vegetation
 - species
- 3b. **Data acquisition methods:** Field surveys.
- 3c. **Geographic coverage:** Nova Scotia at a scale of 1:50 000.
- 3d. **Geographic units of measure:** Northing and easting, referenced to grid in Nova Scotia Map Book.
- 3e. **Period of record:** Recent information.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy, maps.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** Unknown.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Habitats; Wildlife
11. **Additional information:** The Nova Scotia Department of Natural Resources also holds a list of provincial wildlife management areas and game sanctuaries.

Wildlife Habitats - Wetlands

WHW-0024-E

1. **Summary description:** A database to provide planners (for example pipeline contractors, municipalities and other developers) with maps which classify all wetlands greater than 0.25 ha and which identify some of the important wildlife habitats.
- 2a. **Responsible organization:** Department of Natural Resources
- 2b. **Database contact:** Mr. Randy Milton or Mr. Reg Melanson, Wildlife Division, Department of Natural Resources, 136 Exhibition Street, Kentville, N.S. B4N 4E5
Phone: (902) 679-6091 *Facsimile:* (902) 679-6176
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- wetland (size, type - swamps, bogs, marshes, flood plains, salt marshes, coastal areas important to colonial seabirds, migratory birds, piping plover and bald eagles)
 - physio-chemical and biological characteristics
- 3b. **Data acquisition methods:** Inventory. Airphoto interpretation with some on-site surveys.

- 3c. **Geographic coverage:** Nova Scotia - freshwater and coastal wetlands at a scale of 1:50 000 and 1:100 000.
- 3d. **Geographic units of measure:** Northing and easting.
- 3e. **Period of record:** 1977 to 1982. Recent information.
- 3f. **Update frequency:** Irregularly.
- 4a. **Database storage format:** Hardcopy, maps, diskette.
- 4b. **Database computer environment:** PC, DBASE IV.
5. **Restrictions and conditions:** None.
6. **Price information:** None.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** Documentation available from contact.
10. **Keywords:** Landscape; Wetlands; Wildlife
11. **Additional information:** Beginning to cross-reference wetland identified with polygon numbers within the Forest Inventory database currently being developed by the Forest Resources Planning and Mensuration Division of the Nova Scotia Department of Natural Resources.



Department of the Environment

Air Pollution Monitoring System

APM-0218-E

1. **Summary description:** APMS is a database created in order to gather air quality data and pollutant levels for national and provincial networks to indicate annual trends and provide monthly summaries.
- 2a. **Responsible organization:** Department of the Environment
- 2b. **Database contact:** Mr. Randy Piercey, Research and Statistics Officer, Air Quality Branch, Department of the Environment, P.O. Box 2107, Halifax, N.S. B3J 3B7
Phone: (902) 424-5300 *Facsimile:* (902) 424-0503
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- ozone
 - hydrogen sulphide
 - nitrogen oxides
 - sulphur dioxide
 - carbon monoxide
 - total suspended particulates
- 3b. **Data acquisition methods:** Field measurements. Continual measurements and reporting of one hour averages for specific sites located throughout the Province.
- 3c. **Geographic coverage:** Nova Scotia.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1970 to present.
- 3f. **Update frequency:** Hourly, monthly.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, APSM, QUATTRO PRO.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Air quality; Atlantic; Contaminants
11. **Additional information:** None.

Fresh Water Users - Nova Scotia

FWU-0004-E

1. **Summary description:** Inventory for operation and planning purposes containing information on operator's names, sources of supply, volume concerned and uses of fresh water.
- 2a. **Responsible organization:** Department of the Environment
- 2b. **Database contact:** Mr. Herb T. Doane, Water Resources Branch, Department of the Environment, P.O. Box 2107, Halifax, N.S. B3J 3B7
Phone: (902) 424-5300 Facsimile: (902) 424-0503
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - name of facility
 - name of responsible persons
 - daily use of water
 - source
 - water body
- 3b. **Data acquisition methods:** Survey. Data collected from all major water users (less than 1,000 users).
- 3c. **Geographic coverage:** Nova Scotia.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1988 to present.
- 3f. **Update frequency:** Irregularly.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Hydrology; Water
11. **Additional information:** None.

Groundwater Monitoring Network

GMN-0005-E

1. **Summary description:** Inventory of monthly or extreme condition water level statistics from various sites located throughout the province.
- 2a. **Responsible organization:** Department of the Environment
- 2b. **Database contact:** Mr. Herb Doane, Water Resources Branch, Department of the Environment, P.O. Box 2107, Halifax, N.S. B3J 3B7
Phone: (902) 424-5300 Facsimile: (902) 424-0503
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - groundwater levels (monthly average maximum, monthly average minimum, maximum to date, minimum to date)
- 3b. **Data acquisition methods:** Monitoring. Samples from over 35 sites throughout the province.
- 3c. **Geographic coverage:** Nova Scotia.
- 3d. **Geographic units of measure:** Latitude and longitude, northing and easting, 6 degree Modified Universal Transverse Mercator Projection.
- 3e. **Period of record:** 1960 to present.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, FOXBASE, LOTUS 123.
5. **Restrictions and conditions:** None.

6. **Price information:** No charge.
7. **Corresponding printed sources:** McIntosh, R. J., *Groundwater Hydrography in Nova Scotia, 1965-1981*, 1984.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Hydrology; Water
11. **Additional information:** Database contains raw data which needs analysis and interpretation.

Groundwater Quality

GQ-0444-E

1. **Summary description:** An inventory of groundwater samples.
- 2a. **Responsible organization:** Department of the Environment
- 2b. **Database contact:** Water Resources Branch, Department of the Environment, P.O. Box 2107, Halifax, N.S. B3J 3B7
Phone: (902) 424-5300 Facsimile: (902) 424-0503
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - major organic ions
 - metals
 - suspended solids
 - turbidity
 - conductivity
 - colour
 - pH
- 3b. **Data acquisition methods:** Literature review. Review of Nova Scotia Department of the Environment working files, provincial water resources reports and Department of Agriculture water quality reports.
- 3c. **Geographic coverage:** Nova Scotia.
- 3d. **Geographic units of measure:** Community name.
- 3e. **Period of record:** 1965 to 1982.
- 3f. **Update frequency:** Not applicable.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Hydrology; Water quality
11. **Additional information:** None.

Inventory of Wastewater Treatment Plants

IWT-0006-E

1. **Summary description:** An inventory of wastewater treatment plants for every community of over 300 people. Information about the disposal of wastewater is also available for each community of 300 or more and in some cases for smaller communities.
- 2a. **Responsible organization:** Department of the Environment
- 2b. **Database contact:** Ms. Sharon Vervaeke, Resource Management and Pollution Control Division, Department of the Environment, P.O. Box 2107, Halifax, N.S. B3J 3B7
Phone: (902) 424-5300 Facsimile: (902) 424-0503
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - inventory (location of plant, type, capacity)
- 3b. **Data acquisition methods:** Survey. Information gathered from individual plants, files, permits.
- 3c. **Geographic coverage:** Nova Scotia.

- 3d. **Geographic units of measure:** Plant location.
- 3e. **Period of record:** 1993 to present. Recently started.
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, FOXPRO.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** A briefing note is available about the database.
10. **Keywords:** Atlantic; Effluents; Environmental Science
11. **Additional information:** None.

PCB Inventory System

PCB-0441-E

1. **Summary description:** A computerized inventory of PCB wastes in storage for disposal.
- 2a. **Responsible organization:** Department of the Environment
- 2b. **Database contact:** Mr. Ed Drake, Department of the Environment, P.O. Box 2107, Halifax, N.S. B3J 3B7
Phone: (902) 424-5300 Facsimile: (902) 424-0503
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - inventory
 - owner
 - site (capacity, contents, location)
 - PCB type
 - level of contamination
- 3b. **Data acquisition methods:** Monitoring. Copies of records and books maintained by responsible party.
- 3c. **Geographic coverage:** Nova Scotia.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1991 to present.
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE IV.
5. **Restrictions and conditions:** Some data is confidential.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Air quality; Atlantic; Contaminants
11. **Additional information:** None.

Pesticide Spray Control System

PSC-0007-E

1. **Summary description:** An inventory of pesticide spray programs.
- 2a. **Responsible organization:** Department of the Environment
- 2b. **Database contact:** Mr. Craig Morrison, Department of the Environment, P.O. Box 2107, Halifax, N.S. B3J 3B7
Phone: (902) 902-4245 Facsimile: (902) 300-4240
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - physical (land owner, pesticide product number, site location)
 - chemical (pesticide description)

- 3b. **Data acquisition methods:** Monitoring and survey. Data compiled from spray applications.
- 3c. **Geographic coverage:** Nova Scotia.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1988 to present.
- 3f. **Update frequency:** Weekly at source.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, FOXBASE, DBASE III+.
5. **Restrictions and conditions:** Some data is proprietary information.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Contaminants; Pesticides
11. **Additional information:** None.

Petroleum Storage Applications

PSA-0008-E

1. **Summary description:** A computerized inventory of petroleum storage tanks for cross-referencing and serviceability status on tank usage.
- 2a. **Responsible organization:** Department of the Environment
- 2b. **Database contact:** Mr. John Henderson, Department of the Environment, P.O. Box 2107, Halifax, N.S. B3J 3B7
Phone: (902) 424-5300 Facsimile: (902) 424-0503
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - installation (date, type, owner, operator, location)
 - product stored (inventory)
 - tank and dyking information (size)
- 3b. **Data acquisition methods:** Monitoring. Information extracted from storage tank applications.
- 3c. **Geographic coverage:** Nova Scotia.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1988 to present.
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, FOXPRO, FOXBASE, DBASE III+.
5. **Restrictions and conditions:** Some data is confidential.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Energy; Oil
11. **Additional information:**
 1. Applications received in paper copy and entered onto system.
 2. Database includes information on all storage tanks having a nominal capacity of 2,000 litres or greater (underground) or 4,000 litres or greater (above ground) including abandoned tanks.

Pump Test Inventory

PTI-0443-E

1. **Summary description:** An inventory of approximately 700 well and aquifer tests.

- 2a. Responsible organization:** Department of the Environment
- 2b. Database contact:** Water Resources Branch, Department of the Environment, P.O. Box 2107, Halifax, N.S. B3J 3B7
Phone: (902) 424-5300 Facsimile: (902) 424-0503
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- pumping rate
 - water level
 - transmissivity
 - recommended short term yield
 - recommended long term yield
 - well log data
- 3b. Data acquisition methods:** Monitoring. Data compiled from test carried out by departmental personnel and others. Test are a requirement of the Well Drilling Act.
- 3c. Geographic coverage:** Nova Scotia.
- 3d. Geographic units of measure:** NTS, northing and easting, longitude and latitude.
- 3e. Period of record:** 1965 to present.
- 3f. Update frequency:** As required.
- 4a. Database storage format:** Hardcopy.
- 4b. Database computer environment:** Not applicable.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Atlantic; Water quality; Contaminants
- 11. Additional information:** None.

Rain Chemistry Database

RCD-0009-E

- 1. Summary description:** Contains baseline rain chemistry data collected weekly from five automated samplers around the province.
- 2a. Responsible organization:** Department of the Environment
- 2b. Database contact:** Mr. Randy Piercey, Assessment Division, Department of the Environment, P.O. Box 2107, Halifax, N.S. B3J 3B7
Phone: (902) 424-5300 Facsimile: (902) 424-0503
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- conductivity, pH, nitrogen, sodium, chloride, cadmium, magnesium, alkalinity, sulphuric acid, nitric acid, sulphur, total organic carbon, acidity, metals
- 3b. Data acquisition methods:** Monitoring and sampling. Samples collected weekly from 5 automated samplers located around the province.
- 3c. Geographic coverage:** Nova Scotia.
- 3d. Geographic units of measure:** Not applicable.
- 3e. Period of record:** 1977 to present.
- 3f. Update frequency:** Annually.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, SPSS.
- 5. Restrictions and conditions:** Data requests considered on an individual basis.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Atlantic; Environmental Science; Precipitation

- 11. Additional information:** Database has over 11,900 records which include over 3,000 precipitation samples; approximately 300 samples per year; 20 chemical tests per sample.

Salvage Yards Licensing Application

SYL-0442-E

- 1. Summary description:** An inventory of all licensed salvage yards.
- 2a. Responsible organization:** Department of the Environment
- 2b. Database contact:** Ms. Christine Hodgson, Department of the Environment, P.O. Box 2107, Halifax, N.S. B3J 3B7
Phone: (902) 424-5300 Facsimile: (902) 424-0503
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- owners
 - lot (location, description)
 - license (year licensed, current number)
- 3b. Data acquisition methods:** Monitoring. Data compiled from applications received in paper format.
- 3c. Geographic coverage:** Nova Scotia.
- 3d. Geographic units of measure:** Not applicable.
- 3e. Period of record:** 1964 to present.
- 3f. Update frequency:** As required.
- 4a. Database storage format:** Hardcopy.
- 4b. Database computer environment:** PC.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Air quality; Contaminants; Atlantic
- 11. Additional information:** Licenses are renewed annually and are conditional.

Surface Water Quality Reference System

SWQ-0033-E

- 1. Summary description:** An index or inventory meant to be used as a reference system to access water quality reports and surveys. The information can be used to assess changes in water chemistry over time.
- 2a. Responsible organization:** Department of the Environment
- 2b. Database contact:** Mr. Darell Taylor, Environmental Analyst, Department of the Environment, Water Resources Branch, P.O. Box 2107, Halifax, N.S. B3J 3B7
Phone: (902) 424-2570 Facsimile: (902) 424-0503
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- major ions
 - dissolved oxygen
 - pH
 - nitrogen
 - phosphorous
 - alkalinity
 - metals
- 3b. Data acquisition methods:** Research, monitoring and survey. Field grab samples collected from boat or aircraft.
- 3c. Geographic coverage:** Nova Scotia.
- 3d. Geographic units of measure:** Latitude and longitude.
- 3e. Period of record:** 1905 to present.
- 3f. Update frequency:** One or two surveys conducted annually.

- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Hydrology; Water quality
11. **Additional information:** None.

Water License and Permit Management System

WLP-0010-E

1. **Summary description:** An inventory of water users, taken from water rights permits, to ensure that water resources are adequately protected.
- 2a. **Responsible organization:** Department of the Environment
- 2b. **Database contact:** Mr. Herb T. Doane, Water Resources Branch, Department of the Environment, P.O. Box 2107, Halifax, N.S. B3J 3B7
Phone: (902) 424-5300 *Facsimile:* (902) 424-0503
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - water course information
 - project information
 - dates of work
 - withdrawal rates
- 3b. **Data acquisition methods:** Monitoring. Information taken from water rights permits - all persons working within contact of provincial water.
- 3c. **Geographic coverage:** Nova Scotia.
- 3d. **Geographic units of measure:** Latitude and longitude, northing and easting.
- 3e. **Period of record:** Early 1900s to present.
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, FOXPRO, FOXBASE.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Hydrology; Water
11. **Additional information:** Data pertains to alterations to water courses and to withdrawals of surface and groundwater exceeding 22,000 litres per day.

Well Log Database Management System

WLD-0011-E

1. **Summary description:** An inventory of all water wells dug or drilled in Nova Scotia.
- 2a. **Responsible organization:** Department of the Environment
- 2b. **Database contact:** Mr. Herb T. Doane, Water Resources Branch, Department of the Environment, P.O. Box 2107, Halifax, N.S. B3J 3B7
Phone: (902) 424-5300 *Facsimile:* (902) 424-0503
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - owner information

- well information (location, driller, yield method)
- water (status, use)
- stratigraphy

- 3b. **Data acquisition methods:** Monitoring, survey and inventory. Logs from licensed driller/riggers.
- 3c. **Geographic coverage:** Nova Scotia.
- 3d. **Geographic units of measure:** Northing and easting, Modified 6 degree Universal Transverse Mercator Projection.
- 3e. **Period of record:** 1965 to present.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, FOXPRO.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Several annual or biannual reports. Well log reports, 1965 to 1978.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Exploration; Water
11. **Additional information:** Data entry is incomplete for 1988.



Department of Tourism and Culture

Campground Demand

CDE-0095-E

1. **Summary description:** A database describing the activity at private and municipal campgrounds in Nova Scotia.
- 2a. **Responsible organization:** Department of Tourism and Culture
- 2b. **Database contact:** Mr. Stephen Coyle, Research Analyst, Industry Development Division, Department of Tourism and Culture, P.O. Box 456, Halifax, N.S. B3J 2R5
Phone: (902) 424-4264 *Facsimile:* (902) 424-2668
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - registrations (type of camper, origin of camper, site nights occupied, person nights)
- 3b. **Data acquisition methods:** Survey. Self administered monthly occupancy form required under the camping establishments regulations act.
- 3c. **Geographic coverage:** Nova Scotia.
- 3d. **Geographic units of measure:** County.
- 3e. **Period of record:** 1970 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC.
5. **Restrictions and conditions:** Individual records are confidential.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Internal correspondence only.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Economics; Tourism
11. **Additional information:** None.

Campground Supply

CSU-0101-E

1. **Summary description:** A database containing the attributes of private and municipal campgrounds.
 - 2a. **Responsible organization:** Department of Tourism and Culture
 - 2b. **Database contact:** Mr. Doug Matthews, Manager, Inspection and Training Services, Department of Tourism and Culture, P.O. Box 456, Halifax, N.S. B3J 2R5
Phone: (204) 424-3942 *Facsimile:* (204) 424-2668
 - 2c. **Access mechanisms:** Through the responsible organization.
 - 3a. **Parameters measured:**
 - attributes of campgrounds
 - sites (number, serviced, unserviced)
 - amenities (pool, firewood, dumping station)
 - manager (address)
 - 3b. **Data acquisition methods:** Surveys. Camping inspection report administered by campground inspector.
 - 3c. **Geographic coverage:** Nova Scotia.
 - 3d. **Geographic units of measure:** County.
 - 3e. **Period of record:** 1970 to present.
 - 3f. **Update frequency:** Annually.
 - 4a. **Database storage format:** Diskette.
 - 4b. **Database computer environment:** PC.
 5. **Restrictions and conditions:** None.
 6. **Price information:** No charge.
 7. **Corresponding printed sources:** Internal correspondence only.
 8. **Languages:** English.
 9. **User aids available:** Programs to generate standard reports.
 10. **Keywords:** Economics; Landscape; Tourism
 11. **Additional information:** None.
-

Tally of Motor Vehicles

TMV-0108-E

1. **Summary description:** A survey of motor vehicles entering Nova Scotia from May 15 to October 31.
- 2a. **Responsible organization:** Department of Tourism and Culture
- 2b. **Database contact:** Mr. John Somers, Industry Development Division, Department of Tourism and Culture, P.O. Box 456, Halifax, N.S. B3J 2R5
Phone: (902) 424-4264 *Facsimile:* (902) 424-4225
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - property (name, rooms available, rooms sold, guest nights, tourist region, county)
- 3b. **Data acquisition methods:** Census. Visual observation.
- 3c. **Geographic coverage:** Nova Scotia.
- 3d. **Geographic units of measure:** Community.
- 3e. **Period of record:** 1922 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC.
5. **Restrictions and conditions:** Individuals records are confidential.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Internal correspondence only.

8. **Languages:** English.
9. **User aids available:** Programs to generate standard reports.
10. **Keywords:** Atlantic; Economics; Vehicles
11. **Additional information:** Internal correspondence only.



Department of Transportation and Communications

Gravel Pit Sites

GPS-0397-E

1. **Summary description:** An inventory of deeds, legal descriptions, site plans and acquisition source for gravel pit sites in Nova Scotia.
 - 2a. **Responsible organization:** Department of Transportation and Communications
 - 2b. **Database contact:** Mr. Frank Harland, Manager, Land Acquisition, Right-of-Way Claims Division, Department of Transportation and Communications, P.O. Box 186, Halifax, N.S. B3J 2N2
Phone: (902) 424-5699 *Facsimile:* (902) 424-0558
 - 2c. **Access mechanisms:** Through the responsible organization.
 - 3a. **Parameters measured:**
 - site plan
 - acquisition source
 - 3b. **Data acquisition methods:** Monitoring. Deed and field surveys.
 - 3c. **Geographic coverage:** Nova Scotia.
 - 3d. **Geographic units of measure:** Site.
 - 3e. **Period of record:** Current from date of acquisition.
 - 3f. **Update frequency:** As transactions occur.
 - 4a. **Database storage format:** Hardcopy.
 - 4b. **Database computer environment:** Not applicable.
 5. **Restrictions and conditions:** None.
 6. **Price information:** No charge.
 7. **Corresponding printed sources:** None.
 8. **Languages:** English.
 9. **User aids available:** None.
 10. **Keywords:** Atlantic; Minerals; Mining
 11. **Additional information:** None.
-

Traffic Volumes Database

TVD-0226-E

1. **Summary description:** A database that contains Average Annual Daily Traffic (AADT) volumes and truck percentages for various highways and years around the province.
- 2a. **Responsible organization:** Department of Transportation and Communications
- 2b. **Database contact:** Mr. Ralph Hessian, Senior Traffic Engineer, Traffic Division, Department of Transportation and Communications, P.O. Box 186, Halifax, NS B3J 2N2
Phone: (204) 424-3270 *Facsimile:* (204) 424-0571
- 2c. **Access mechanisms:** Through technical contact/government bookstore (hardcopy).
- 3a. **Parameters measured:**
 - location description
 - ADT

- AADT
 - percentage trucks
 - count (date, length, type)
 - highway (section, highway group, county)
- 3b. Data acquisition methods:** Manual traffic counts or electronic roadside counters. Telac 60 - (permanent counter); MR-101 - (temporary counter); IRD-1060 - (permanent counter); Marksman - 660 (temporary counter).
- 3c. Geographic coverage:** Nova Scotia.
- 3d. Geographic units of measure:** Highway sections.
- 3e. Period of record:** Not applicable.
- 3f. Update frequency:** Annually.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, FOXPRO.
- 5. Restrictions and conditions:** Only short, specific requests will be handled by phone.
- 6. Price information:** Book prices fluctuate with the cost of production (\$10.00).
- 7. Corresponding printed sources:** Traffic Volume book. Secondary Roads book.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Atlantic; Transportation; Vehicles
- 11. Additional information:** None.



Land Registration and Information Service (LRIS)

Halifax/Dartmouth Commutershed Planimetric Database

H/D-0026-E

- 1. Summary description:** A digital planimetric database of the Halifax/Dartmouth commutershed region.
- 2a. Responsible organization:** Land Registration and Information Service (LRIS)
- 2b. Database contact:** Mr. David Purdy, Data Distribution, Land Registration and Information Service (LRIS), Resource Information Division, P.O. Box 310, 16 Station Street, Amherst, N.S. B4H 3Z5
Phone: (902) 667-7231 *Facsimile:* (902) 667-6008
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- planimetric information
- 3b. Data acquisition methods:** Mapping.
- 3c. Geographic coverage:** Commutershed region of the cities of Halifax and Dartmouth at scales of 1:25 000 and 1:100 000.
- 3d. Geographic units of measure:** Northing and easting.
- 3e. Period of record:** 1989 to present.
- 3f. Update frequency:** As required.
- 4a. Database storage format:** Hardcopy maps, tape (1600 BPI/TK50), diskette.
- 4b. Database computer environment:** VAX, VMS, CARIS V4.1 GIS.
- 5. Restrictions and conditions:** None.
- 6. Price information:** A fee is charged.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.

- 9. User aids available:** None.
- 10. Keywords:** Geographic Information System; Geography; Urban areas
- 11. Additional information:** None.

Nova Scotia 1:250 000 Topographic Database

NST-0016-E

- 1. Summary description:** A digital topographic database of the Province of Nova Scotia.
- 2a. Responsible organization:** Land Registration and Information Service (LRIS)
- 2b. Database contact:** Mr. David Purdy, Data Distribution, Land Registration and Information Service (LRIS), P.O. Box 310, 16 Station Street, Amherst, N.S. B4H 3Z5
Phone: (902) 667-7231 *Facsimile:* (902) 667-6008
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- shoreline
- lakes
- rivers
- basic topographic data
- basic planimetric data
- 3b. Data acquisition methods:** Mapping. Derived from digital files produced by scanning printing plates.
- 3c. Geographic coverage:** Nova Scotia at scales of 1:250 000 and 1:50 000.
- 3d. Geographic units of measure:** NTS, northing and easting, NAD83.
- 3e. Period of record:** Varies.
- 3f. Update frequency:** As required.
- 4a. Database storage format:** Hardcopy maps, magnetic tape, diskette (various formats - NTX, SIF).
- 4b. Database computer environment:** VAX, VMS, CARIS V4.1 GIS.
- 5. Restrictions and conditions:** Restricted to Nova Scotia government users.
- 6. Price information:** A fee is charged for formats other than NTX.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Geographic Information System; Geography; Landscape
- 11. Additional information:** None.

Nova Scotia 1:500 000 Planimetric Database

NSP-0027-E

- 1. Summary description:** A digital planimetric database, derived from the official Tourism/Highway Map of the Province of Nova Scotia at overview scale.
- 2a. Responsible organization:** Land Registration and Information Service (LRIS)
- 2b. Database contact:** Mr. Dave Purdy, Data Distribution, Land Registration and Information Service (LRIS), Resource Information Division, P.O. Box 310, 16 Station Street, Amherst, N.S. B4H 3Z5
Phone: (902) 667-7231 *Facsimile:* (902) 667-6008
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- shoreline
- major lakes, rivers

- transportation network
- county boundaries
- reference grids
- major cities, towns

- 3b. **Data acquisition methods:** Mapping. Derived from the official Tourism/Highway Map of the Province of Nova Scotia.
- 3c. **Geographic coverage:** Nova Scotia at a scale of 1:500 000.
- 3d. **Geographic units of measure:** Northing and easting.
- 3e. **Period of record:** 1992 to present.
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Hardcopy maps, magnetic tape, diskette (various formats - NTX, SIF).
- 4b. **Database computer environment:** VAX, VMS, CARIS V4.1 GIS.
5. **Restrictions and conditions:** None.
6. **Price information:** \$500.00 in any format available.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Geographic Information System; Geography; Landscape
11. **Additional information:** None.

Nova Scotia Coordinate Control System

NSC-0025-E

1. **Summary description:** An inventory of absolute and relative positional values in geographic and plane coordinates to provide a means of referencing the position of geographic features.
- 2a. **Responsible organization:** Land Registration and Information Service (LRIS)
- 2b. **Database contact:** Mr. Peter Kittelson, Assistant Director, Land Information Management Services Division, Nova Scotia Department of Municipal Affairs, 1660 Hollis Street, Halifax, N.S. B3J 1V7
Phone: (902) 424-4200 Facsimile: (902) 424-5872
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- absolute and relative positional values in geographic and plane coordinates
- 3b. **Data acquisition methods:** Surveys and mapping. On-site surveys.
- 3c. **Geographic coverage:** Nova Scotia.
- 3d. **Geographic units of measure:** Coordinate values, 3 degree Modified Transverse Mercator Projection.
- 3e. **Period of record:** Ongoing update from regular inspection of monuments.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy, magnetic tape, diskette.
- 4b. **Database computer environment:** PC, FORTRAN.
5. **Restrictions and conditions:** None.
6. **Price information:** A fee is charged, price list available.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Geography; Land use; Urban areas
11. **Additional information:** There are Land Information Centres in Halifax, New Glasgow, Sydney and Lawrencetown.

Nova Scotia Resource Atlas

NSR-0402-E

1. **Summary description:** A collection of maps, text and statistics to present the essential facts about Nova Scotia, its people and its resources.
- 2a. **Responsible organization:** Land Registration and Information Service (LRIS)
- 2b. **Database contact:** Ms. Nancy Gayton, Map Librarian, Resource Information, Land Registration and Information Service (LRIS), P.O. Box 310, 16 Station Street, Amherst, NS B4H 3Z5
Phone: (902) 679-6091 Facsimile: (902) 679-6176
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- forestry (forest cover, biophysical land classification, property ownership, wildlife resource habitat and harvest, land capability and mill locations)
- agriculture (agriculture capability, climate, climatic zones, capital value of farms, agriculture and associated industries)
- fishery (species, total value of landings, processing plant facilities, fishery infrastructure)
- geology (geology, coal resources, peat resources, metallic minerals, industrial minerals, offshore resources)
- resources infrastructure (water resources, transportation, electrical energy, manufacturing, labour force, education, population, tourism, recreation, international exports, resource data)
- 3b. **Data acquisition methods:** Reports. Information compiled from various provincial and federal government departments and agencies by departmental staff.
- 3c. **Geographic coverage:** Nova Scotia.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** Primarily data from 1984/1985.
- 3f. **Update frequency:** None planned.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** There is a charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Ecology; Landscape
11. **Additional information:** None.

Resource Topographic Database of Nova Scotia 1:10 000

RTD-0029-E

1. **Summary description:** A digital topographic database of the Province of Nova Scotia for the purpose of resource mapping.
- 2a. **Responsible organization:** Land Registration and Information Service (LRIS)
- 2b. **Database contact:** Mr. David Purdy, Data Distribution, Resource Information Division, Land Registration and Information Service (LRIS), P.O. Box 310, 16 Station Street, Amherst, N.S. B4H 3Z5
Phone: (902) 667-7231 Facsimile: (902) 667-6008
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- topographic information
- planimetric information
- 3b. **Data acquisition methods:** Mapping.

- 3c. **Geographic coverage:** Partial coverage of Nova Scotia at a scale of 1:10 000 (approximately 60 percent).
- 3d. **Geographic units of measure:** Northing and easting, Modified Transverse Mercator Projection.
- 3e. **Period of record:** Varies.
- 3f. **Update frequency:** Varies.
- 4a. **Database storage format:** Hardcopy maps, magnetic tape, diskette (various formats - NTX, SIF).
- 4b. **Database computer environment:** VAX, VMS, CARIS V4.1 GIS.
- 5. **Restrictions and conditions:** None.
- 6. **Price information:** \$100.00 per 1:10 000 window (NTX format), \$50.00 extra for others.
- 7. **Corresponding printed sources:** None.
- 8. **Languages:** English.
- 9. **User aids available:** None.
- 10. **Keywords:** Geographic Information System; Geography; Landscape
- 11. **Additional information:** Anticipated completion date 1996; index available on request.

Urban Topographic Databases of Nova Scotia 1:2 000

UTD-0030-E

- 1. **Summary description:** A digital topographic database of the urban areas of the Province of Nova Scotia.
- 2a. **Responsible organization:** Land Registration and Information Service (LRIS)
- 2b. **Database contact:** Mr. David Purdy, Data Distribution, Resource Information Division, Land Registration and Information Service (LRIS), P.O. Box 310, 16 Station Street, Amherst, N.S. B4H 3Z5
Phone: (902) 667-7231 *Facsimile:* (902) 667-6008
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - topographic information
 - planimetric information
- 3b. **Data acquisition methods:** Mapping.
- 3c. **Geographic coverage:** Urban areas of Nova Scotia at a scale of 1:2 000; Halifax/Dartmouth at 1:1 000.
- 3d. **Geographic units of measure:** Northing and easting, Universal Modified Transverse Mercator Projection.
- 3e. **Period of record:** Varies.
- 3f. **Update frequency:** Varies.
- 4a. **Database storage format:** Hardcopy maps, magnetic tape, diskette (various formats - NTX, SIF).
- 4b. **Database computer environment:** VAX, VMS, CARIS V4.1 GIS.
- 5. **Restrictions and conditions:** None.
- 6. **Price information:** \$100.00 per 1:10 000 window (NTX format), \$50.00 extra for others.
- 7. **Corresponding printed sources:** None.
- 8. **Languages:** English.
- 9. **User aids available:** None.
- 10. **Keywords:** Geographic Information System; Geography; Urban areas
- 11. **Additional information:** None.



The Clean Nova Scotia Foundation

CNSF Programmes Main File

CNF-0167-E

- 1. **Summary description:** A database consisting of contact names, addresses and locations for volunteer environmental projects and action.
- 2a. **Responsible organization:** The Clean Nova Scotia Foundation
- 2b. **Database contact:** Mr. Randy Muler, Project Officer, The Clean Nova Scotia Foundation, P.O. Box 2528, Station M, Halifax, N.S. B3J 3N5
Phone: (902) 420-3476 *Facsimile:* (902) 424-5334
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - name (address, county)
 - project involvement
 - years of participation
 - type of group
- 3b. **Data acquisition methods:** Compilation. Sign up forms and telephone.
- 3c. **Geographic coverage:** Nova Scotia.
- 3d. **Geographic units of measure:** Street address, municipality.
- 3e. **Period of record:** 1991 to present.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** Macintosh, FILEMAKER PRO 2.0.
- 5. **Restrictions and conditions:** None.
- 6. **Price information:** No charge.
- 7. **Corresponding printed sources:** Mailing lists.
- 8. **Languages:** English.
- 9. **User aids available:** None.
- 10. **Keywords:** Atlantic; Environmental Science; Public attitudes
- 11. **Additional information:** None.

NEW BRUNSWICK



Department of Fisheries and Aquaculture

AQUA

AQU-0083-E

1. **Summary description:** To locate sites of hatcheries, Bay of Fundy weirs, and Bay of Fundy marine aquaculture cages in New Brunswick. Also coastal planning relevant to sustainable fisheries and aquaculture.
- 2a. **Responsible organization:** Department of Fisheries and Aquaculture
- 2b. **Database contact:** Mr. Fred Kolls, Data Centre Services, Department of Supply and Services, 20 McGlion Street, Fredericton, N.B. E3A 4J9
Phone: (506) 453-2455 *Facsimile:* (506) 453-7173
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - physical (site locations)
 - aquaculture (owner, cages, local mapping)
- 3b. **Data acquisition methods:** Survey. Information gathered from permit applications, and Fisheries and Oceans Canada information.
- 3c. **Geographic coverage:** New Brunswick
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1989 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC.
5. **Restrictions and conditions:** Some data may be restricted.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** User's manual.
10. **Keywords:** Aquaculture; Atlantic; Fish
11. **Additional information:** None.



Department of Health and Community Services

Birth and Death Data in New Brunswick

BDD-0386-E

1. **Summary description:** Birth and death information registered to the New Brunswick Department of Health and Community Services.
- 2a. **Responsible organization:** Department of Health and Community Services

- 2b. **Database contact:** Ms. Huguette Lavoie, Office Manager, Vital Statistics, Department of Health and Community Services, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 453-2008 *Facsimile:* (506) 453-3245
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - death data (deceased (name, sex, marital status, occupation), death (place, date, cause), residence at time of death)
 - birth data (child (name, sex, place of birth, date of birth), particulars of mother and father, residence of mother at time of birth)
- 3b. **Data acquisition methods:** Birth and death certificates. Registration of births and deaths.
- 3c. **Geographic coverage:** New Brunswick.
- 3d. **Geographic units of measure:** County, community.
- 3e. **Period of record:** 1888 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** IBM mainframe. PC.
5. **Restrictions and conditions:** Personal identifying information is restricted.
6. **Price information:** Fee for certificate.
7. **Corresponding printed sources:** None.
8. **Languages:** See 11.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Demography; Health
11. **Additional information:** Registration in both English and French. Reporting in English only.

Public Health Inspection Database

PHI-0147-E

1. **Summary description:** Reports of the type and volume of work done by the Public Health Inspectors. Public Health Inspections in New Brunswick covers: food control, institutional facility inspecting, subdivision assessment, sewage system inspections (septic), private and communal water sampling, recreational water sampling, food and water borne illness investigations; nuisance investigations (insects, rodents, solid waste, housing).
- 2a. **Responsible organization:** Department of Health and Community Services
- 2b. **Database contact:** Mr. Mark Allen, Director, Community and Environmental Health, Department of Health and Community Services, P.O. Box 5100, Fredericton, N.B. E3B 5G8
Phone: (506) 453-2360 *Facsimile:* (506) 453-2726
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - date of service
 - code (office, inspector, service location, activity)
 - service count
 - time units
- 3b. **Data acquisition methods:** Time sheets. Public Health Inspection Daily Report.
- 3c. **Geographic coverage:** New Brunswick.
- 3d. **Geographic units of measure:** Standard geographical classification code.
- 3e. **Period of record:** 1979 to present.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Hard disk.
- 4b. **Database computer environment:** UNISYS mainframe.
5. **Restrictions and conditions:** Written request, will provide data but not access.

6. **Price information:** Depending on complexity and requirements to produce data.
7. **Corresponding printed sources:** Monthly and annual reports.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Government; Human Health
11. **Additional information:** None.



Department of Municipalities, Culture and Housing

Natural History - New Brunswick Museum

NHN-0084-E

1. **Summary description:** To maintain an inventory of the natural history of New Brunswick and other areas for scientific research and education.
- 2a. **Responsible organization:** Department of Municipalities, Culture and Housing
- 2b. **Database contact:** Mr. Donald McAlpine, Curator of Zoology and Head, Natural Sciences, New Brunswick Museum, Department of Municipalities, Culture and Housing, 277 Douglas Avenue, Saint John, N.B. E2K 1E5
Phone: (506) 643-2345 *Facsimile:* (506) 643-2360
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - physical (geomorphological and geological data)
 - chemical (concentrations of mercury and other contaminants in birds)
 - biological (geographical variation in the distribution of plants, animals, birds and invertebrates, reproductive data, feeding patterns)
- 3b. **Data acquisition methods:** Reports, surveys. Research, monitoring and survey.
- 3c. **Geographic coverage:** New Brunswick, with some information from the remainder of eastern Canada and the northeastern United States.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1860 to present.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy, specimens, diskette.
- 4b. **Database computer environment:** Local network, potentially CHIN compatible.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Numerous published papers on file.
8. **Languages:** English.
9. **User aids available:** CHIN data dictionary.
10. **Keywords:** Atlantic; Conservation; Environmental Science
11. **Additional information:** None.



Department of Natural Resources and Energy

Coastal Geomorphology and Geology

CGG-0085-E

1. **Summary description:** To provide terrain information for coastal zone management.
- 2a. **Responsible organization:** Department of Natural Resources and Energy
- 2b. **Database contact:** Mr. Jacques J. Thibault, Peatland Geologist, Mineral Resources Division, Department of Natural Resources and Energy, P.O. Box 50, Bathurst, N.B. E2A 3Z1
Phone: (506) 547-2070 *Facsimile:* (506) 546-3994
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - bedrock geology
 - surficial geology
 - slope aspect
 - shore protection works
 - coastal erosion rates
 - littoral processes
- 3b. **Data acquisition methods:** Mapping. Field work, photographs (ground and aerial).
- 3c. **Geographic coverage:** Complete Province of New Brunswick shoreline at scales of 1:1 000, 1:10 000, 1:20 000, 1:100 000.
- 3d. **Geographic units of measure:** Latitude and longitude, UTM coordinates.
- 3e. **Period of record:** 1945 to present.
- 3f. **Update frequency:** Updated every 5 to 10 years.
- 4a. **Database storage format:** Hardcopy, slides, digital formats, maps, photographs.
- 4b. **Database computer environment:** CARIS GIS, INGRES.
5. **Restrictions and conditions:** None.
6. **Price information:** Nominal fee for reproduction.
7. **Corresponding printed sources:** Documents based on the database.
8. **Languages:** English and French.
9. **User aids available:** None.
10. **Keywords:** Coastal zone; Geographic Information System; Geomorphology
11. **Additional information:** Eventually will be digital (CARIS GIS) 1:10 000.

Forest Roads

FRD-0173-E

1. **Summary description:** Spatial location and classification of forest roads.
- 2a. **Responsible organization:** Department of Natural Resources and Energy
- 2b. **Database contact:** Mr. Robert Dick, Director, Timber Management Planning, Department of Natural Resources and Energy, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 453-2516 *Facsimile:* (506) 453-6689
- 2c. **Access mechanisms:** Through the responsible organization.

- 3a. Parameters measured:**
- class of forest road
 - spatial location
- 3b. Data acquisition methods:** Photo interpretation.
- 3c. Geographic coverage:** New Brunswick.
- 3d. Geographic units of measure:** Roads.
- 3e. Period of record:** 1982 to 1992.
- 3f. Update frequency:** Annually.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, SUN, ARC/INFO GIS.
- 5. Restrictions and conditions:** None.
- 6. Price information:** There is a charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Atlantic; Forestry; Geographic Information System
- 11. Additional information:** None.

Hunting Surveys

HUN-0178-E

- 1. Summary description:** Catch and effort results of surveyed hunters.
- 2a. Responsible organization:** Department of Natural Resources and Energy
- 2b. Database contact:** Ms. Cinthia Johnson, Biologist, Fish and Wildlife Branch, Department of Natural Resources and Energy, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 453-2440 Facsimile: (506) 453-6699
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- zone hunted
 - method of hunt
 - days hunted
 - species killed
- 3b. Data acquisition methods:** Survey. Mail solicitation of hunters.
- 3c. Geographic coverage:** New Brunswick.
- 3d. Geographic units of measure:** Wildlife management zone.
- 3e. Period of record:** 1993 to present.
- 3f. Update frequency:** Annually.
- 4a. Database storage format:** Hardcopy.
- 4b. Database computer environment:** Not applicable.
- 5. Restrictions and conditions:** None.
- 6. Price information:** \$0.50 per record.
- 7. Corresponding printed sources:** Annual Hunting Statistics.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Atlantic; Harvesting; Wildlife
- 11. Additional information:** None.

Lake Inventory

LIN-0177-E

- 1. Summary description:** Inventory of New Brunswick lakes.
- 2a. Responsible organization:** Department of Natural Resources and Energy
- 2b. Database contact:** Mr. Bill Hooper, Fishery Biologist, Fish and Wildlife Branch, Department of Natural Resources and Energy, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 453-7103 Facsimile: (506) 453-6699

- 2c. Access mechanisms:** Through the responsible organization.

- 3a. Parameters measured:**
- lake (number, name, area)
 - county/parish
 - drainage/sub drainage
 - depths
- 3b. Data acquisition methods:** Surveys and maps. Data input by departmental staff.
- 3c. Geographic coverage:** New Brunswick.
- 3d. Geographic units of measure:** Lake.
- 3e. Period of record:** Not applicable.
- 3f. Update frequency:** As required (static).
- 4a. Database storage format:** Diskette.
- 4b. Database computer environment:** PC, DBASE.
- 5. Restrictions and conditions:** None.
- 6. Price information:** \$0.50 per record.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Hydrography; Lakes; Water
- 11. Additional information:** None.

Mineral Occurrences

MIN-0176-E

- 1. Summary description:** Inventory of mineral occurrences in New Brunswick.
- 2a. Responsible organization:** Department of Natural Resources and Energy
- 2b. Database contact:** Mr. Rao R. Irinki, Geologist, Minerals Division, Department of Natural Resources and Energy, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 453-2206 Facsimile: (506) 453-3671
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- occurrence (name, location, composition, tonnage)
- 3b. Data acquisition methods:** Reports. Publications - assessment files.
- 3c. Geographic coverage:** New Brunswick.
- 3d. Geographic units of measure:** Not applicable.
- 3e. Period of record:** Not applicable.
- 3f. Update frequency:** Static (as required).
- 4a. Database storage format:** Diskette.
- 4b. Database computer environment:** PC, DBASE.
- 5. Restrictions and conditions:** None.
- 6. Price information:** \$30.00 per map sheet.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** User's manual.
- 10. Keywords:** Atlantic; Geology; Minerals
- 11. Additional information:** None.

New Brunswick Forest Inventory

NBF-0087-E

- 1. Summary description:** Inventory of New Brunswick forest resources.
- 2a. Responsible organization:** Department of Natural Resources and Energy

- 2b. Database contact:** Mr. Robert Dick, Director, Timber Management Planning, Department of Natural Resources and Energy, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 453-2516 *Facsimile:* (506) 453-6689
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - biological (species, age class)
- 3b. Data acquisition methods:** Monitoring. Air photo interpretation and ground surveys.
- 3c. Geographic coverage:** New Brunswick.
- 3d. Geographic units of measure:** ATS77, NB Double Stereographic Grid.
- 3e. Period of record:** 1981 to present.
- 3f. Update frequency:** Annually as required.
- 4a. Database storage format:** Hardcopy, maps, photos, diskette.
- 4b. Database computer environment:** SUN, ARC/INFO GIS.
- 5. Restrictions and conditions:** Some data may be restricted.
- 6. Price information:** May be cost recovery.
- 7. Corresponding printed sources:** No formal reference material, internal documents only.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Atlantic; Forestry; Geographic Information System
- 11. Additional information:** The New Brunswick Forest Inventory can be supported by the New Brunswick Forest Development Survey, which is accessible through the technical contact.

New Brunswick Peatland Database

PLD-0236-E

- 1. Summary description:** Peatland resources management.
- 2a. Responsible organization:** Department of Natural Resources and Energy
- 2b. Database contact:** Mr. Jacques Thibault, Peatland Geologist, Mineral Resources Division, Department of Natural Resources and Energy, P.O. Box 50, Bathurst, N.B. E2A 3Z1
Phone: (506) 547-2070 *Facsimile:* (506) 546-3994
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - surface cover vegetation (bogs, peat moss)
 - stratigraphy
 - peat (thickness, topography, geochemistry, humification, drainage)
- 3b. Data acquisition methods:** Mapping. On-site surveys and aerial photo interpretation.
- 3c. Geographic coverage:** New Brunswick at scales 1:10 000, 1:250 000, 1:500 000.
- 3d. Geographic units of measure:** 817 individual peatlands, 95 percent of peatlands excluding National Parks, latitude and longitude.
- 3e. Period of record:** 1983 to present.
- 3f. Update frequency:** Annually.
- 4a. Database storage format:** Digital and hard copy, maps, reports and photos.
- 4b. Database computer environment:** PC, DBASE III+.
- 5. Restrictions and conditions:** None.
- 6. Price information:** Variable depending on size of request.
- 7. Corresponding printed sources:** *Mineral Resources Report #6* (comes with diskette).
- 8. Languages:** English and French.
- 9. User aids available:** User's manual included in report (see 7).
- 10. Keywords:** Atlantic; Ecology; Habitats

11. Additional information:

1. Eventually will be digital (CARIS GIS) 1:10 000 with INGRES for DBMS.
2. Over 620 variables are recorded for each peatland.

Salmon Angling Survey

SAS-0179-E

- 1. Summary description:** Survey results (catch and effort) from salmon anglers.
- 2a. Responsible organization:** Department of Natural Resources and Energy
- 2b. Database contact:** Mr. Bill Hooper, Fishery Biologist, Fish and Wildlife Branch, Department of Natural Resources and Energy, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 453-7103 *Facsimile:* (506) 453-6699
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - river fished
 - number of (days fished, salmon (Atlantic) killed, salmon released)
- 3b. Data acquisition methods:** Survey. Mail-out to fisherman.
- 3c. Geographic coverage:** New Brunswick.
- 3d. Geographic units of measure:** Rivers.
- 3e. Period of record:** 1965 to 1992.
- 3f. Update frequency:** Annually.
- 4a. Database storage format:** Hardcopy.
- 4b. Database computer environment:** Not applicable.
- 5. Restrictions and conditions:** None.
- 6. Price information:** \$0.50 per record.
- 7. Corresponding printed sources:** *Annual Angling Statistics*.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Biology; Fish; Rivers
- 11. Additional information:** None.

Silviculture Activities

SIA-0175-E

- 1. Summary description:** Silviculture activities on Crown Lands and private lands.
- 2a. Responsible organization:** Department of Natural Resources and Energy
- 2b. Database contact:** Mr. Robert Dick, Director, Timber Management Planning, Department of Natural Resources and Energy, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 453-2516 *Facsimile:* (506) 453-6689
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - activity (date, location)
 - species planted
 - planting density
 - thinning rate
 - site preparation
 - herbicide application
- 3b. Data acquisition methods:** Annual updates submitted by timber companies and woodlot owners.
- 3c. Geographic coverage:** New Brunswick.
- 3d. Geographic units of measure:** Harvest block.
- 3e. Period of record:** 1982 to 1992.
- 3f. Update frequency:** Annually.
- 4a. Database storage format:** Diskette, tape cartridge.

- 4b. **Database computer environment:** SUN, PC, DBASE.
5. **Restrictions and conditions:** None.
6. **Price information:** \$0.50 per record.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Forestry; Trees
11. **Additional information:** None.

Timber Harvest

TBH-0172-E

1. **Summary description:** Volume of timber harvested from Crown owned land.
- 2a. **Responsible organization:** Department of Natural Resources and Energy
- 2b. **Database contact:** Mr. Danny Murphy, Director, Silviculture Section, Department of Natural Resources and Energy, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 453-2516 *Facsimile:* (506) 453-6689
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - species
 - timber (product, license, volume)
 - harvest block (area)
- 3b. **Data acquisition methods:** Scale report forms.
- 3c. **Geographic coverage:** New Brunswick.
- 3d. **Geographic units of measure:** Harvest block.
- 3e. **Period of record:** 1982 to present.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Diskette, tape cartridge.
- 4b. **Database computer environment:** SUN, PC, INGRES.
5. **Restrictions and conditions:** None.
6. **Price information:** There is a charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Forestry; Harvesting
11. **Additional information:** None.



Department of the Environment

(Environmental) Approvals

APP-0233-E

1. **Summary description:** Management tool to assist in the tracking of Industrial Certificates of Approval.
- 2a. **Responsible organization:** Department of the Environment
- 2b. **Database contact:** Mr. Don Grass, Supervisor Compliance Monitoring, Industrial Program Section, Operations Branch, Department of the Environment, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 457-4848 *Facsimile:* (506) 453-2265
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - see 11
- 3b. **Data acquisition methods:** Certificates of Approval.

- 3c. **Geographic coverage:** New Brunswick.
- 3d. **Geographic units of measure:** New Brunswick property identification number.
- 3e. **Period of record:** 1986 to present.
- 3f. **Update frequency:** Weekly.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC, DBASE IV, FOXPRO, LOTUS 123, QUATTRO PRO.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Industry; Regulation
11. **Additional information:** Administrative database only. No parameter information held.

Active Disposal Sites

ADS-0228-E

1. **Summary description:** List of active municipal solid waste disposal sites with certificate of approval.
- 2a. **Responsible organization:** Department of the Environment
- 2b. **Database contact:** Mr. Roger Maillet, Mr. Mike Reinhardt, Solid Waste and Recycling Section, Department of the Environment, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 457-4848 *Facsimile:* (506) 457-7805
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - solid waste
 - disposal sites
- 3b. **Data acquisition methods:** Inspections, list of disposal sites. Data input by departmental staff.
- 3c. **Geographic coverage:** New Brunswick.
- 3d. **Geographic units of measure:** Municipality.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** PC, WORDPERFECT.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Disposal; Engineering
11. **Additional information:** None.

Atlantic Canada Wastewater Treatment Facility Database

ACW-0193-E

1. **Summary description:** Information on wastewater treatment and collection systems in New Brunswick.
- 2a. **Responsible organization:** Department of the Environment
- 2b. **Database contact:** Mr. André Chenard, Environment Officer, Water and Wastewater Section, Department of the Environment, 364 Argyle Street, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 457-4848 *Facsimile:* (506) 457-7805
- 2c. **Access mechanisms:** Through the responsible organization.

3a. Parameters measured:

- design (flow, population)
- type of treatment
- owner
- operating license
- equipment information
- operator information
- inspection data

3b. Data acquisition methods: Information from plans for approvals. Department of the Environment receives plans for Approval from municipality and then inputs the data.

3c. Geographic coverage: New Brunswick.

3d. Geographic units of measure: UTM coordinates.

3e. Period of record: 1993 to present.

3f. Update frequency: Monthly.

4a. Database storage format: Diskette.

4b. Database computer environment: PC, FOXPRO, XBASE.

5. Restrictions and conditions: None.

6. Price information: No charge.

7. Corresponding printed sources: None.

8. Languages: English.

9. User aids available: None.

10. Keywords: Atlantic; Effluents; Engineering

11. Additional information: This database was initiated by Environment Canada, however New Brunswick (Department of the Environment) collects and inputs data into the database.

Beverage Containers

BEV-0231-E

1. Summary description: Sales and recovery data of beverage containers in New Brunswick.

2a. Responsible organization: Department of the Environment

2b. Database contact: Ms. Germaine Pataki, Engineering Technician, Solid Waste and Recycling Section, Department of the Environment, P.O. Box 6000, Fredericton, N.B. E3B 5H1

Phone: (506) 457-4848 *Facsimile:* (506) 457-7805

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- beverage containers (total number sold, returned for refund)
- deposit revenue collected
- unredeemed deposit money
- redemption rates
- registered beverage containers
- registered distributor list
- registered redemption centres and applicants

3b. Data acquisition methods: Applied by industry monthly. Data input by departmental staff.

3c. Geographic coverage: New Brunswick.

3d. Geographic units of measure: Not applicable.

3e. Period of record: 1992 to present. On-going.

3f. Update frequency: Monthly.

4a. Database storage format: Hardcopy, diskette.

4b. Database computer environment: PC, LOTUS 123, DBASE.

5. Restrictions and conditions: None.

6. Price information: No charge.

7. Corresponding printed sources: None.

8. Languages: English.

9. User aids available: None.

10. Keywords: Atlantic; Industry; Recycling

11. Additional information: None.

Closed Dumps

CLD-0229-E

1. Summary description: Identification and verification of closed or abandoned land disposal sites.

2a. Responsible organization: Department of the Environment

2b. Database contact: Mr. Don Woods, Engineer, Solid Waste and Recycling, Department of the Environment, P.O. Box 6000, Fredericton, N.B. E3B 5H1

Phone: (506) 457-4848 *Facsimile:* (506) 457-7805

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- closed dump (location, size, use)

3b. Data acquisition methods: Site survey and report. Data prepared by consulting firm.

3c. Geographic coverage: New Brunswick.

3d. Geographic units of measure: Dump sites.

3e. Period of record: Not applicable.

3f. Update frequency: Not applicable.

4a. Database storage format: Hardcopy.

4b. Database computer environment: Not applicable.

5. Restrictions and conditions: Single copy (book).

6. Price information: No charge.

7. Corresponding printed sources: Map of closed dumps.

8. Languages: English.

9. User aids available: None.

10. Keywords: Atlantic; Engineering; Waste

11. Additional information: None.

Critical Flood Levels in the Saint John River Basin

CFL-0076-E

1. Summary description: To identify structures and other specific locations in the Saint John River Basin which could be affected by flood waters.

2a. Responsible organization: Department of the Environment

2b. Database contact: Mr. Patrick Tang, Environmental Planning and Sciences Branch, Department of the Environment, Argyle Place, P.O. Box 6000, Fredericton, N.B. E3B 5H1

Phone: (506) 457-4844 *Facsimile:* (506) 453-2390

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- physical (ground elevations of buildings, specific locations in flood prone areas)

3b. Data acquisition methods: Survey of ground elevations based on geodetic datum.

3c. Geographic coverage: Saint John River Basin, mostly in populated areas.

3d. Geographic units of measure: Not applicable.

3e. Period of record: 1983 to present.

3f. Update frequency: Not applicable.

4a. Database storage format: Hardcopy, diskette.

4b. Database computer environment: PC, DBASE III.

5. Restrictions and conditions: None.

6. Price information: No charge.

7. Corresponding printed sources: None.

8. Languages: English.

9. User aids available: None.

10. Keywords: Hydrology; Natural disasters; Rivers

11. **Additional information:** Monitoring is carried out to determine the risk of flooding by comparing forecast levels to levels in the database.

Environmental Emergencies

EEM-0197-E

1. **Summary description:** Data on spills and their causes.
- 2a. **Responsible organization:** Department of the Environment
- 2b. **Database contact:** Mr. D. J. Williams, Manager of Enforcement, Investigations and Enforcement Branch, Department of the Environment, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 457-4850 *Facsimile:* (506) 453-2893
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - dates
 - companies
 - product
 - quantity
 - causes of spills
- 3b. **Data acquisition methods:** Monitoring. Reports.
- 3c. **Geographic coverage:** New Brunswick.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1966 to present.
- 3f. **Update frequency:** Daily.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Contaminants; Spills
11. **Additional information:** None.

Environmentally Significant Areas in New Brunswick

ESA-0077-E

1. **Summary description:** To identify unique, sensitive or otherwise ecologically significant areas.
- 2a. **Responsible organization:** Department of the Environment
- 2b. **Database contact:** Ms. Jane Tims, Manager, Water Classification Program, Department of the Environment, Environmental Planning and Science Branch, Argyle Place, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 457-4846 *Facsimile:* (506) 457-7823
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - location (UTM, references, area type, notes)
- 3b. **Data acquisition methods:** Surveys. Interviews and documents.
- 3c. **Geographic coverage:** All New Brunswick: principally Charlotte, Saint John, Kings, Queens, York, Sunbury, Carleton, Victoria, Northumberland and Gloucester counties.
- 3d. **Geographic units of measure:** UTM coordinates.
- 3e. **Period of record:** 1984 to present.
- 3f. **Update frequency:** Ongoing.
- 4a. **Database storage format:** Hardcopy diskette.
- 4b. **Database computer environment:** PC, DBASE IV.
5. **Restrictions and conditions:** None.

6. **Price information:** No charge unless maps are requested.
7. **Corresponding printed sources:** None to date.
8. **Languages:** English (French available).
9. **User aids available:** User's manual under preparation.
10. **Keywords:** Atlantic; Ecology; Habitats
11. **Additional information:** None.

Groundwater Levels

GLV-0078-E

1. **Summary description:** To measure fluctuations in groundwater levels at selected sites in New Brunswick.
- 2a. **Responsible organization:** Department of the Environment
- 2b. **Database contact:** Mr. Michael Sprague, Environmental Planning and Sciences Branch, Department of the Environment, Argyle Place, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 457-4844 *Facsimile:* (506) 453-2390
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - physical (water level information, depth below ground level, elevation of water level referenced to geodetic datum)
- 3b. **Data acquisition methods:** Monitoring: baseline stations, water management stations. Baseline stations: reflect natural fluctuations in climate, topography and geology. Water management station: reflect pumping activity in municipal well-fields. Water levels measured using chart recorders and data-loggers (data was directly downloaded to office using modems).
- 3c. **Geographic coverage:** New Brunswick.
- 3d. **Geographic units of measure:** 37 monitoring stations, latitude and longitude, UTM coordinates.
- 3e. **Period of record:** 1980 to 1992. 12 year period of record.
- 3f. **Update frequency:** Updated monthly.
- 4a. **Database storage format:** Hard disk, diskette.
- 4b. **Database computer environment:** PC, SYMPHONY 2.0, LOTUS 3.1, HARVARD GRAPHICS.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** *Review of the Groundwater Level Monitoring Network in New Brunswick*, 1984. *Summary of 1991 Groundwater Levels from Observation Wells of the Groundwater Level Monitoring Network in N.B.*, 1992.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Hydrology; Water
11. **Additional information:** Although this program was terminated in April 1992, groundwater level data remains stored on computer hard drive and diskettes (2 sets).

Hazardous Waste Management System

HWM-0282-E

1. **Summary description:** A database that contains information on the generation, transportation and disposal of hazardous wastes in New Brunswick.
- 2a. **Responsible organization:** Department of the Environment
- 2b. **Database contact:** Mr. Réjean Doiron, Hazardous Materials Section, Operations Branch, Department of the Environment, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 457-4848 *Facsimile:* (506) 453-2265
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - handlers of hazardous wastes

- generator's (name, ID number, mailing address, shipping (site) address, type, waste class, PIN, TDG class, volume)
 - carrier's (name, ID number, mailing address, vehicle, waste class)
 - receiver's (name, ID number, mailing address, receiving (site) address, type, waste class, PIN, TDG class, volume, disposal)
 - hazardous waste state (liquid/solid/gas)
 - hazardous waste class
 - product identification number (PIN)
 - quantity
 - TDG class and handling code
- 3b. Data acquisition methods:** Monitoring. From direct registration of handlers of hazardous wastes and from waste manifests (hazardous waste shipping document) received.
- 3c. Geographic coverage:** New Brunswick.
- 3d. Geographic units of measure:** Department of Environment region, city, county, province.
- 3e. Period of record:** 1992 to present.
- 3f. Update frequency:** Continually.
- 4a. Database storage format:** Hard disk, diskette.
- 4b. Database computer environment:** PC, CLIPPER.
- 5. Restrictions and conditions:** Some information available only by written request.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** User's guide.
- 10. Keywords:** Atlantic; Transportation; Waste
- 11. Additional information:** None.

New Brunswick Biomedical Waste Inventory

NBB-0217-E

- 1. Summary description:** An inventory of biomedical waste generated in New Brunswick.
- 2a. Responsible organization:** Department of the Environment
- 2b. Database contact:** Mr. Mike Murphy, Air Quality Section, Department of the Environment, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 457-4848 *Facsimile:* (506) 453-2265
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - kg/month (received, treated)
- 3b. Data acquisition methods:** Quarterly reports. Certificate of approval.
- 3c. Geographic coverage:** New Brunswick (anticipated).
- 3d. Geographic units of measure:** Place name.
- 3e. Period of record:** 1993 to present.
- 3f. Update frequency:** Continually.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, EXCEL.
- 5. Restrictions and conditions:** Semi-confidential.
- 6. Price information:** Dependent on size of request.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None at present.
- 10. Keywords:** Atlantic; Human Health; Waste
- 11. Additional information:** This is a new program being developed.

New Brunswick Biomonitoring Program

NBI-0224-E

- 1. Summary description:** Provides data on levels of atmospheric pollutants such as heavy metals in different environmental media.
- 2a. Responsible organization:** Department of the Environment
- 2b. Database contact:** Mr. Wilfred Pilgrim, Environmental Biologist, Air Quality Section, Department of the Environment, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 457-4848 *Facsimile:* (506) 453-2265
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - heavy metals in (snowpack, lichens, mosses, soils, water)
- 3b. Data acquisition methods:** Special NBDOE studies. Passive monitoring.
- 3c. Geographic coverage:** New Brunswick.
- 3d. Geographic units of measure:** Latitude and longitude.
- 3e. Period of record:** 1980 to present.
- 3f. Update frequency:** Annually.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, LOTUS 123, DBASE, WORDPERFECT.
- 5. Restrictions and conditions:** Some data is for government use.
- 6. Price information:** Dependent on purpose of request.
- 7. Corresponding printed sources:** *Phytotoxicology Investigations*, Air Quality Section, Department of the Environment.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Air quality; Atlantic; Contaminants
- 11. Additional information:** Biomonitoring results for heavy metals in the environment are compiled in interpretive reports.

New Brunswick CFC Inventory Program

NBC-0218-E

- 1. Summary description:** Records amounts and types of CFCs used in New Brunswick (purchased, recovered, reused, sold).
- 2a. Responsible organization:** Department of the Environment
- 2b. Database contact:** Mr. Denis Marquis, Air Quality Section, Department of the Environment, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 457-4848 *Facsimile:* (506) 453-2265
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - kilograms (purchased, recovered, disposal)
- 3b. Data acquisition methods:** Semi-annual reports.
- 3c. Geographic coverage:** New Brunswick.
- 3d. Geographic units of measure:** Not applicable.
- 3e. Period of record:** 1993 to present.
- 3f. Update frequency:** Continually.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, FOXPRO.
- 5. Restrictions and conditions:** None.
- 6. Price information:** Dependent on size of request.
- 7. Corresponding printed sources:** CFC Regulation.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Atlantic; Atmosphere; Contaminants

11. **Additional information:** This is a new inventory.

New Brunswick Department of the Environment CFC User Inventory

CFC-0223-E

1. **Summary description:** Records users of CFC's in New Brunswick and technicians approved to handle CFC's in New Brunswick.
- 2a. **Responsible organization:** Department of the Environment
- 2b. **Database contact:** Mr. Denis Marquis, Air Quality Section, Department of the Environment, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 457-4848 *Facsimile:* (506) 453-2265
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- CFCs (types, quantities, name of users)
- 3b. **Data acquisition methods:** Survey. Companies recorded.
- 3c. **Geographic coverage:** New Brunswick.
- 3d. **Geographic units of measure:** Place name.
- 3e. **Period of record:** 1993 to present.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, FOXPRO.
5. **Restrictions and conditions:** Semi-confidential.
6. **Price information:** User fee may be necessary.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Climate; Contaminants
11. **Additional information:** This is a new database.

New Brunswick Halon Inventory

HAL-0225-E

1. **Summary description:** Records amounts and types of halons use in New Brunswick.
- 2a. **Responsible organization:** Department of the Environment
- 2b. **Database contact:** Mr. Denis Marquis, Air Quality Section, Department of the Environment, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 457-4848 *Facsimile:* (506) 453-2265
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- halon (kilograms, type)
- 3b. **Data acquisition methods:** Semi-annual reports. User's list.
- 3c. **Geographic coverage:** New Brunswick.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1993 to present.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, FOXPRO.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** CFC Regulation.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Climate change; Contaminants
11. **Additional information:** This is a new database.

New Brunswick Precipitation Monitoring Network

NB-0216-E

1. **Summary description:** Used to estimate acid deposition in New Brunswick.
- 2a. **Responsible organization:** Department of the Environment
- 2b. **Database contact:** Mr. David Albin, Air Quality Section, Department of the Environment, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 457-4848 *Facsimile:* (506) 453-2265
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- major ions
- selected heavy metals
- precipitation (daily)
- 3b. **Data acquisition methods:** Laboratory generated. Automated Rain Collector, MIC Type AU.
- 3c. **Geographic coverage:** New Brunswick.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1980 to present.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE.
5. **Restrictions and conditions:** Some information is proprietary.
6. **Price information:** Variable depending on size.
7. **Corresponding printed sources:** NATChem and CAPMon.
8. **Languages:** English.
9. **User aids available:** User's manual available in both official languages.
10. **Keywords:** Acid precipitation; Atlantic; Construction
11. **Additional information:**
 1. The NBPMN began in 1980 and is continually upgraded, sites are sometimes dropped and new ones added.
 2. The database contact person can also be reached on E-Mail at ENV0@UNB.CA

New Brunswick Residue Discharge Information System

RDI-0226-E

1. **Summary description:** Records of emissions of various air pollutants from stationary and mobile sources in New Brunswick.
- 2a. **Responsible organization:** Department of the Environment
- 2b. **Database contact:** Mr. Mike Murphy, Air Quality Section, Department of the Environment, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 457-4848 *Facsimile:* (506) 453-2265
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- organic
- inorganic
- 3b. **Data acquisition methods:** Federal and Provincial monitors.
- 3c. **Geographic coverage:** New Brunswick.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1993 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, FOXPRO.

5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Contaminants; Emissions
11. **Additional information:** Federal database with provincial input. Not yet readily available.

Occurrence Reporting System

ORS-0196-E

1. **Summary description:** Data on occurrences being investigated.
- 2a. **Responsible organization:** Department of the Environment
- 2b. **Database contact:** Mr. K. B. Marshall, Director, Investigations and Enforcement Branch, Department of the Environment, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 457-4850 *Facsimile:* (506) 453-2893
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - incident (date, area, investigator, complainant)
 - details of incidents being investigated
- 3b. **Data acquisition methods:** Occurrence reporting. Phone calls followed by field work.
- 3c. **Geographic coverage:** New Brunswick.
- 3d. **Geographic units of measure:** Street address.
- 3e. **Period of record:** 1990 to present.
- 3f. **Update frequency:** Daily.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, CLIPPER.
5. **Restrictions and conditions:** Restricted to staff of Investigations and Enforcement Branch.
6. **Price information:** Not applicable.
7. **Corresponding printed sources:** Monthly reports submitted by each of the six regions. This includes the applicable Statutes for each occurrence.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Enforcement; Public attitudes
11. **Additional information:** This database is not yet fully computerized. The majority is in hardcopy format.

PCB Inventory System

PCB-0281-E

1. **Summary description:** A database that maintains an inventory of PCB wastes stored at various locations in the province.
- 2a. **Responsible organization:** Department of the Environment
- 2b. **Database contact:** Mr. Réjean Doiron, Hazardous Materials Section, Operations Branch, Department of the Environment, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 459-4848 *Facsimile:* (506) 453-2265
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - company information (name, mailing address, storage site address, contact, inspection information)
 - inventory information (PCB item, quantity, PCB type (for each item), location)
- 3b. **Data acquisition methods:** Monitoring. From inventories received from PCB waste storage owners. Accuracy of information is verified by the Department of the Environment.

- 3c. **Geographic coverage:** New Brunswick.
- 3d. **Geographic units of measure:** Environmental region (6), county, city, province.
- 3e. **Period of record:** 1989 to present.
- 3f. **Update frequency:** Annually or more frequently.
- 4a. **Database storage format:** Hard drive, diskette.
- 4b. **Database computer environment:** PC, DBASE.
5. **Restrictions and conditions:** Some data is confidential, approval by management needed.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English (French optional).
9. **User aids available:** *PCB Inventory System User's guide.*
10. **Keywords:** Atlantic; Contaminants; Electricity
11. **Additional information:** None.

Petroleum Management System

PMT-0079-E

1. **Summary description:** To compile data on above, underground and portable petroleum storage tanks in New Brunswick.
- 2a. **Responsible organization:** Department of the Environment
- 2b. **Database contact:** Mr. Doug Neilson, Operations Branch, Department of the Environment, Argyle Place, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 457-4848 *Facsimile:* (506) 453-2265
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - petroleum storage tanks (upgrades, new construction, abandonments, transfers of ownership, leaks, spills, licensing data)
- 3b. **Data acquisition methods:** Monitoring. Information obtained from permits, major oil companies and environmental approvals.
- 3c. **Geographic coverage:** New Brunswick
- 3d. **Geographic units of measure:** PID, PAN, DSSNO, county, municipality, postal code.
- 3e. **Period of record:** 1988 to present.
- 3f. **Update frequency:** Daily.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** PC, NOVELL, CLIPPER, DBASE IV, FOXPRO, LOTUS 123.
5. **Restrictions and conditions:** Site specific information available upon request.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Energy; Fuel
11. **Additional information:** Database contains comprehensive information on 6,500 petroleum storage tank sites and 19,000 individual tanks. Only aggregated data can be released to protect individual oil companies.

Recycler List

REC-0232-E

1. **Summary description:** List of recycling depots.
- 2a. **Responsible organization:** Department of the Environment

- 2b. Database contact:** Ms. Joanne Glynn, Waste Management Planner, Solid Waste and Recycling Section, Department of the Environment, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 457-4848 *Facsimile:* (506) 457-7805
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- recycling materials collected at each location
- 3b. Data acquisition methods:** Mail-out surveys to recycling depots with follow-up telephone calls.
- 3c. Geographic coverage:** New Brunswick.
- 3d. Geographic units of measure:** Not applicable.
- 3e. Period of record:** 1993 to present.
- 3f. Update frequency:** Every 1.5 years.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, WORDPERFECT.
- 5. Restrictions and conditions:** None at this time.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English and French.
- 9. User aids available:** None.
- 10. Keywords:** Atlantic; Households; Recycling
- 11. Additional information:**
1. This is a new database that is currently under development.
2. The list of recyclers changes frequently.

Saint John-Southern New Brunswick Air Quality Monitoring Network

SNB-0227-E

- 1. Summary description:** Provides data on ambient urban and rural air quality.
- 2a. Responsible organization:** Department of the Environment
- 2b. Database contact:** Mr. Stan Howe, Air Quality Section, Department of the Environment, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 457-4848 *Facsimile:* (506) 453-2265
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- urban (SO₂, O₃, CO, NO₂, H₂S, NO, TSP, PM-10)
- wind (speed, direction)
- rural (O₃)
- 3b. Data acquisition methods:** Automated.
- 3c. Geographic coverage:** Saint John-Southern New Brunswick.
- 3d. Geographic units of measure:** Place name.
- 3e. Period of record:** 1976 to present. Rural 1988 to present, urban 1976 to present.
- 3f. Update frequency:** Continually.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC.
- 5. Restrictions and conditions:** None.
- 6. Price information:** Dependent on size of request.
- 7. Corresponding printed sources:** Monthly and annual reports.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Air quality; Atlantic; Contaminants
- 11. Additional information:** This network may be expanded to include other areas of New Brunswick.

Snow Survey Database

SSD-0013-E

- 1. Summary description:** To aid in flood forecasting and water management.
- 2a. Responsible organization:** Department of the Environment
- 2b. Database contact:** Mr. Jim DeVenney, Environmental Planning and Sciences Branch, Department of the Environment, Argyle Place, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 457-4844 *Facsimile:* (506) 453-2390
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- physical (snow depth in cm, water equivalent of snow cover in mm)
- 3b. Data acquisition methods:** Monitoring. Core samples from snow.
- 3c. Geographic coverage:** New Brunswick and the Saint John River Basin.
- 3d. Geographic units of measure:** Geographic location.
- 3e. Period of record:** 1954 to present.
- 3f. Update frequency:** 5 times a year.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, FORTRAN.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** Saint John River Co-operative Snow Survey.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Atlantic; Climate; Hydrology
- 11. Additional information:**
1. End analysis of raw data available on hard-copy.
2. Long-term average data available.
3. Originating centres: New Brunswick Power, Québec Environment, U.S. Geological Survey, Water Survey of Canada.

Water Course Application

WAT-0194-E

- 1. Summary description:** Water course alteration applications.
- 2a. Responsible organization:** Department of the Environment
- 2b. Database contact:** Mr. John B. Beunders, Environmental Planning and Sciences Branch, Department of the Environment, 364 Argyle Street, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 457-4844 *Facsimile:* (506) 453-2390
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- alteration (number, type)
- applicant (contracted to)
- watercourse (tributary)
- topographic map number
- DFC region
- date (received, processed, due, paid, permit, inspected/renew)
- advisory agencies notified
- permit issued (yes or no)
- 3b. Data acquisition methods:** Applications sent to Department.
- 3c. Geographic coverage:** New Brunswick.
- 3d. Geographic units of measure:** Watercourse, tributary.
- 3e. Period of record:** 1977 to present.
- 3f. Update frequency:** Daily.

- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Construction; Hydrology; Rivers
11. **Additional information:** None.

Water Quality Database

WQD-0081-E

1. **Summary description:** To monitor baseline trends and determine assimilative capacity.
- 2a. **Responsible organization:** Department of the Environment
- 2b. **Database contact:** Mr. Jacques Arsenault, Water Resource Monitoring Section, Environmental Planning and Sciences Branch, Department of the Environment, 364 Argyle Street, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 457-4844 *Facsimile:* (506) 453-2390
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - physical (dissolved oxygen, temperature, transparency)
 - chemical
 - standard water quality parameters (metals, major ions, nutrients, fecal coliform bacteria, chlorophyll)
- 3b. **Data acquisition methods:** Monitoring. Standard field procedures - those used by the Inland Waters Directorate of Environment Canada.
- 3c. **Geographic coverage:** New Brunswick
- 3d. **Geographic units of measure:** Latitude and longitude, UTM coordinates.
- 3e. **Period of record:** 1973 to present.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC, DBASE III.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Various reports.
8. **Languages:** English (French available).
9. **User aids available:** User's guide.
10. **Keywords:** Contaminants; Rivers; Water quality
11. **Additional information:** Data system not in full operation until Spring 1995.

Water Well Reports Database

WWR-0082-E

1. **Summary description:** To maintain a register of drilled wells (domestic and municipal) in New Brunswick.
- 2a. **Responsible organization:** Department of the Environment
- 2b. **Database contact:** Mr. Mark Miller, Water and Wastewater Section, Operations Branch, Department of the Environment, Argyle Place, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 457-4848 *Facsimile:* (506) 457-7805
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - physical (well location, yield, depth, well log)
 - domestic
 - municipal
 - water quality

- 3b. **Data acquisition methods:** Monitoring. Data obtained from well drillers reports, internal files and lab results.
- 3c. **Geographic coverage:** New Brunswick
- 3d. **Geographic units of measure:** Latitude and longitude, UTM coordinates, PID numbers.
- 3e. **Period of record:** 1976 to present.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy, maps, cartridge tape, diskette.
- 4b. **Database computer environment:** PC, DBASE IV, FOXPRO, INFOCUS, QUICKMAP.
5. **Restrictions and conditions:** None (see 11).
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English and French.
9. **User aids available:** Database field descriptions, code book.
10. **Keywords:** Atlantic; Hydrology; Water
11. **Additional information:**
 1. Georeferencing done by PID number conversion.
 2. Domestic Well Database and Municipal Well Database are separate. Municipal Well Database contains much more information and more accurate information than Domestic Well Database. Both databases can be accessed through Water Well Reports Database.
 3. Agreement that users only use database for own purposes, no further exchange of information permitted.
 4. Well water quality data availability will begin in summer of 1994.



Department of Transportation

Provincial Highway System

PHS-0239-E

1. **Summary description:** All roads in the province of New Brunswick.
- 2a. **Responsible organization:** Department of Transportation
- 2b. **Database contact:** Mr. John Mossman, Director, Planning Branch, Department of Transportation, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 453-2754 *Facsimile:* (506) 453-2900
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - vehicle (make, model, year, weight)
 - road (class, length)
 - route number
- 3b. **Data acquisition methods:** Not applicable.
- 3c. **Geographic coverage:** New Brunswick.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 40 years.
- 3f. **Update frequency:** Ongoing.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** There are restrictions.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.

10. **Keywords:** Atlantic; Transportation; Vehicles

11. **Additional information:** None.

Vehicle Registrations

VR-0240-E

1. **Summary description:** All vehicles registered in the province of New Brunswick.

2a. **Responsible organization:** Department of Transportation

2b. **Database contact:** Mr. James Morrison, Director, Motor Vehicle Branch, Department of Transportation, P.O. Box 6000, Fredericton, N.B. E3B 5H1

Phone: (506) 453-2407 Facsimile: (506) 453-3076

2c. **Access mechanisms:** Through the responsible organization.

3a. **Parameters measured:**

- vehicle (plate, model/year, make, mass, colour, fuel, weight)

3b. **Data acquisition methods:** First registration forms, documents mailed out. Data captured at 39 revenue offices of which 24 are automated for data capture.

3c. **Geographic coverage:** New Brunswick.

3d. **Geographic units of measure:** Not applicable.

3e. **Period of record:** 1978 to present.

3f. **Update frequency:** Annually.

4a. **Database storage format:** Hard disk.

4b. **Database computer environment:** UNISYS 2200 mainframe.

5. **Restrictions and conditions:** Some data may be confidential.

6. **Price information:** Varies depending on type on request

7. **Corresponding printed sources:** None.

8. **Languages:** English screens, reports bilingual.

9. **User aids available:** User's manual and support documentation.

10. **Keywords:** Atlantic; Transportation; Vehicles

11. **Additional information:** None.



New Brunswick Geographic Information Corporation

Land Ownership or Parcel Indexing System

LOP-0160-E

1. **Summary description:** To provide information on New Brunswick, with respect to property boundaries, property identifier and ownership attribute information.

2a. **Responsible organization:** New Brunswick Geographic Information Corporation

2b. **Database contact:** New Brunswick Geographic Information Corporation, 985 College Hill Road, P.O. Box 6000, Fredericton, N.B. E3B 5H1

Phone: (506)457-3581 Facsimile: (506) 453-3898

Property and Mapping Managers:

Bathurst:

Mr. Joe Cormier Phone: (506) 547-2734

Edmunston:

Mr. Leo-Guy LeBlanc Phone: (506) 735-2548

Fredricton:

Mr. Ron Richard Phone: (506) 453-3390

Moncton:

Mr. Plen Dickson Phone: (506) 856-2322

Saint John:

Mr. George Schurman Phone: (506) 658-2479

2c. **Access mechanisms:** Through the responsible organization.

3a. **Parameters measured:**

- parcel boundaries
- owner (name, address)
- parcel (area, location, dimensions)
- deed references

3b. **Data acquisition methods:** Reports. Deeds, plans, other registered documents.

3c. **Geographic coverage:** New Brunswick at a scale of 1:1 000 to 1:10 000.

3d. **Geographic units of measure:** Datum: ATS77, NB Double Stereographic Projection.

3e. **Period of record:** On going and historical information back to early 1970's.

3f. **Update frequency:** Daily.

4a. **Database storage format:** Exabyte tape.

4b. **Database computer environment:** CARIS GIS, NTX.

5. **Restrictions and conditions:** None.

6. **Price information:** Fee schedule available from contact person.

7. **Corresponding printed sources:** None.

8. **Languages:** English.

9. **User aids available:** User's guide.

10. **Keywords:** Atlantic; Geographic Information System; Geography

11. **Additional information:** Over 2,000 files for the province.

New Brunswick Digital Topographic Database

NBD-0159-E

1. **Summary description:** To provide a base topographic mapping (digital) of the province of New Brunswick.

2a. **Responsible organization:** New Brunswick Geographic Information Corporation

2b. **Database contact:** New Brunswick Geographic Information Corporation, 985 College Hill Road, P.O. Box 6000, Fredericton, N.B. E3B 5H1

Phone: (506)457-3581 Facsimile: (506) 453-3898

Property and Mapping Managers:

Bathurst:

Mr. Joe Cormier Phone: (506) 547-2734

Edmunston:

Mr. Leo-Guy LeBlanc Phone: (506) 735-2548

Fredricton:

Mr. Ron Richard Phone: (506) 453-3390

Moncton:

Mr. Plen Dickson Phone: (506) 856-2322

Saint John:

Mr. George Schurman Phone: (506) 658-2479

2c. **Access mechanisms:** Through the responsible organization.

3a. **Parameters measured:**

- planimetry
- natural and human-made features visible in aerial photography
- topography
- mapping
- digital elevation models

- 3b. **Data acquisition methods:** Mapping, aerial photography. Blanket coverage with aerial photos.
- 3c. **Geographic coverage:** New Brunswick at a scale of 1:10 000.
- 3d. **Geographic units of measure:** Provincial coordinate system double stereographic projection.
- 3e. **Period of record:** 1983 to 1993.
- 3f. **Update frequency:** Annually anticipated.
- 4a. **Database storage format:** Exabyte tape.
- 4b. **Database computer environment:** CARIS GIS.
- 5. **Restrictions and conditions:** First party license.
- 6. **Price information:** \$100.00 per 1:10 000 window (under review).
- 7. **Corresponding printed sources:** None.
- 8. **Languages:** English.
- 9. **User aids available:** User's guide, symbol file, master file.
- 10. **Keywords:** Atlantic; Geographic Information System; Geography
- 11. **Additional information:** 2,000 files for province.

New Brunswick Geodesy System

IND-0149-E

- 1. **Summary description:** Coordinates and information for 25,000 Control Survey markers.
- 2a. **Responsible organization:** New Brunswick Geographic Information Corporation
- 2b. **Database contact:** Mr. Cyril Carlin, Geodesist, Regulatory, New Brunswick Geographic Information Corporation, 985 College Hill Road, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 457-7809 *Facsimile:* (506) 453-3898
- 2c. **Access mechanisms:** NB Datapath.
- 3a. **Parameters measured:**
 - latitude, longitude, elevations
 - X and Y coordinates on ATS77 datum
 - gravity deflections
 - marker status
- 3b. **Data acquisition methods:** On-site surveys.
- 3c. **Geographic coverage:** New Brunswick.
- 3d. **Geographic units of measure:** Metres and sexagesimal units.
- 3e. **Period of record:** 1979 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hard disk.
- 4b. **Database computer environment:** DEC VAX, VMS.
- 5. **Restrictions and conditions:** On-line to 5 NBGIC offices.
- 6. **Price information:** Corporation fee structure.
- 7. **Corresponding printed sources:** None.
- 8. **Languages:** English.
- 9. **User aids available:** Data description manual.
- 10. **Keywords:** Atlantic; Geodesy; Land use
- 11. **Additional information:** Information is made available through NBGIC offices at Edmundston, Bathurst, Moncton, Saint John and Fredericton.

Property Taxation Assessment System

PAT-0150-E

- 1. **Summary description:** To collect information on land use and value for purpose of taxation and to levy and account for provincial and municipal taxes.
- 2a. **Responsible organization:** New Brunswick Geographic Information Corporation

- 2b. **Database contact:** Mr. Bill Morrison, Project Manager, Development Division, New Brunswick Geographic Information Corporation, 985 College Hill Road, P.O. Box 6000, Fredericton, N.B. E3B 5H1
Phone: (506) 457-3581 *Facsimile:* (506) 453-3898
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - property information influencing property value
- 3b. **Data acquisition methods:** Field visits, building permits, registry transactions. 5 year re-inspection cycle.
- 3c. **Geographic coverage:** New Brunswick.
- 3d. **Geographic units of measure:** Property identification number.
- 3e. **Period of record:** 1993 to present.
- 3f. **Update frequency:** On-line daily.
- 4a. **Database storage format:** Hard disk.
- 4b. **Database computer environment:** UNISYS 220/9111, DMS 1100.
- 5. **Restrictions and conditions:** On-line access restricted.
- 6. **Price information:** Non-confidential data available for a fee.
- 7. **Corresponding printed sources:** Coding tables.
- 8. **Languages:** English.
- 9. **User aids available:** Manual or presentations available.
- 10. **Keywords:** Atlantic; Economics; Land use
- 11. **Additional information:** None.

QUEBEC



Bureau de la Statistique du Québec

Annual Economic Accounts - Income and Expenditure

COM-0452-E

1. **Summary description:** The data set contains macroeconomic data on the Quebec economy: gross domestic product (GDP), personal income and personal disposable income, household consumption, revenue and expenditure of governments (by level).
- 2a. **Responsible organization:** Bureau de la Statistique du Québec
- 2b. **Database contact:** Direction de la géostatistique et de l'information, Bureau de la Statistique du Québec, Centre d'information et de documentation, 200 chemin Sainte-Foy, 3rd floor, Québec, Qc G1R 5T4
Phone: (418) 691-2401 *Facsimile:* (418) 643-4129
- 2c. **Access mechanisms:** See 11.
- 3a. **Parameters measured:**
- see 11
- 3b. **Data acquisition methods:** See 11.
- 3c. **Geographic coverage:** See 11.
- 3d. **Geographic units of measure:** See 11.
- 3e. **Period of record:** See 11.
- 3f. **Update frequency:** See 11.
- 4a. **Database storage format:** See 11.
- 4b. **Database computer environment:** See 11.
5. **Restrictions and conditions:** See 11.
6. **Price information:** See 11.
7. **Corresponding printed sources:** See 11.
8. **Languages:** French.
9. **User aids available:** See 11.
10. **Keywords:** Economics; Households; Expenditures
11. **Additional information:** Specific queries may be addressed to the BSQ (Bureau de la Statistique du Québec).

Beekeeping

API-0447-E

1. **Summary description:** The data set covers beekeeping related production and income.
- 2a. **Responsible organization:** Bureau de la Statistique du Québec
- 2b. **Database contact:** Direction de la géostatistique et de l'information, Bureau de la Statistique du Québec, Centre d'information et de documentation, 200 chemin Sainte-Foy, 3rd floor, Québec, Qc G1R 5T4
Phone: (418) 691-2401 *Facsimile:* (418) 643-4129.
- 2c. **Access mechanisms:** See 11.
- 3a. **Parameters measured:**
- see 11

- 3b. **Data acquisition methods:** See 11.
- 3c. **Geographic coverage:** See 11.
- 3d. **Geographic units of measure:** See 11.
- 3e. **Period of record:** See 11.
- 3f. **Update frequency:** See 11.
- 4a. **Database storage format:**
- 4b. **Database computer environment:** See 11.
5. **Restrictions and conditions:** See 11.
6. **Price information:** See 11.
7. **Corresponding printed sources:** See 11.
8. **Languages:** French.
9. **User aids available:** See 11.
10. **Keywords:** Agriculture; Insects; Harvesting
11. **Additional information:** Specific queries may be addressed to the BSQ (Bureau de la Statistique du Québec).

Bio-Food System

BIO-0449-E

1. **Summary description:** The data set consists of a comparative statistical study covering Quebec, Canada, the United States and Mexico. The bio-food system is used as an integrating factor in the context of the North American Free-Trade Agreement. The data set is restricted to analysis of high-level aggregates.
- 2a. **Responsible organization:** Bureau de la Statistique du Québec
- 2b. **Database contact:** Direction de la géostatistique et de l'information, Bureau de la Statistique du Québec, Centre d'information et de documentation, 200 chemin Sainte-Foy, 3rd floor, Québec, Qc G1R 5T4
Phone: (418) 691-2401 *Facsimile:* (418) 643-4129
- 2c. **Access mechanisms:** See 11.
- 3a. **Parameters measured:**
- see 11
- 3b. **Data acquisition methods:** See 11.
- 3c. **Geographic coverage:** See 11.
- 3d. **Geographic units of measure:** See 11.
- 3e. **Period of record:** See 11.
- 3f. **Update frequency:** See 11.
- 4a. **Database storage format:** See 11.
- 4b. **Database computer environment:** See 11.
5. **Restrictions and conditions:** See 11.
6. **Price information:** See 11.
7. **Corresponding printed sources:** See 11.
8. **Languages:** French.
9. **User aids available:** See 11.
10. **Keywords:** Agriculture; Food; Harvesting
11. **Additional information:** Specific queries may be addressed to the BSQ (Bureau de la Statistique du Québec).

Cattle, Sheep, Hogs

BOP-0450-E

1. **Summary description:** The data set provides estimates of the number of cattle, sheep and hogs based on reports on availability and distribution, and on statistics on processing and consumption.
- 2a. **Responsible organization:** Bureau de la Statistique du Québec
- 2b. **Database contact:** Direction de la géostatistique et de l'information, Bureau de la Statistique du Québec, Centre d'informa-

tion et de documentation, 200 chemin Sainte-Foy, 3rd floor,
Québec, Qc G1R 5T4

Phone: (418) 691-2401 Facsimile: (418) 643-4129

2c. **Access mechanisms:** See 11.

3a. **Parameters measured:**
- see 11

3b. **Data acquisition methods:** See 11.

3c. **Geographic coverage:** See 11.

3d. **Geographic units of measure:** See 11.

3e. **Period of record:** See 11.

3f. **Update frequency:** See 11.

4a. **Database storage format:** See 11.

4b. **Database computer environment:** See 11.

5. **Restrictions and conditions:** See 11.

6. **Price information:** See 11.

7. **Corresponding printed sources:** See 11.

8. **Languages:** French.

9. **User aids available:** See 11.

10. **Keywords:** Agriculture; Livestock; Harvesting

11. **Additional information:** Specific queries may be addressed to the BSQ (Bureau de la Statistique du Québec).

Census of Agriculture

REC-0465-E

1. **Summary description:** The data set covers Census of Agricultural Holdings in Quebec, by agricultural region, census division and census sub-division. The statistics cover crops, livestock, agricultural land, labour force, capital and other topics.

2a. **Responsible organization:** Bureau de la Statistique du Québec

2b. **Database contact:** Direction de la géostatistique et de l'information, Bureau de la Statistique du Québec, Centre d'information et de documentation, 200 chemin Sainte-Foy, 3rd floor, Québec, Qc G1R 5T4

Phone: (418) 691-2401 Facsimile: (418) 643-4129

2c. **Access mechanisms:** See 11.

3a. **Parameters measured:**
- see 11

3b. **Data acquisition methods:** See 11.

3c. **Geographic coverage:** See 11.

3d. **Geographic units of measure:** See 11.

3e. **Period of record:** See 11.

3f. **Update frequency:** See 11.

4a. **Database storage format:** See 11.

4b. **Database computer environment:** See 11.

5. **Restrictions and conditions:** See 11.

6. **Price information:** See 11.

7. **Corresponding printed sources:** See 11.

8. **Languages:** French.

9. **User aids available:** See 11.

10. **Keywords:** Agriculture; Crops; Economics

11. **Additional information:** Specific queries may be addressed to the BSQ (Bureau de la Statistique du Québec).

Dairy Statistics

STA-0469-E

1. **Summary description:** The data set covers the primary, secondary and tertiary activities associated with the dairy indus-

try. The statistics on primary activities (milk producers) cover quantity and value of production, revenue and expenditure. Secondary activity (dairies and processing plants) statistics cover production and inventory, by product type. The tertiary activity covers commercial sales by product and container type, imports and exports.

2a. **Responsible organization:** Bureau de la Statistique du Québec

2b. **Database contact:** Direction de la géostatistique et de l'information, Bureau de la Statistique du Québec, Centre d'information et de documentation, 200 chemin Sainte-Foy, 3rd floor, Québec, Qc G1R 5T4

Phone: (418) 691-2401 Facsimile: (418) 643-4129

2c. **Access mechanisms:** See 11.

3a. **Parameters measured:**
- see 11

3b. **Data acquisition methods:** See 11.

3c. **Geographic coverage:** See 11.

3d. **Geographic units of measure:** See 11.

3e. **Period of record:** See 11.

3f. **Update frequency:** See 11.

4a. **Database storage format:** See 11.

4b. **Database computer environment:** See 11.

5. **Restrictions and conditions:** See 11.

6. **Price information:** See 11.

7. **Corresponding printed sources:** See 11.

8. **Languages:** French.

9. **User aids available:** See 11.

10. **Keywords:** Agriculture; Livestock; Statistics

11. **Additional information:** Specific queries may be addressed to the BSQ (Bureau de la Statistique du Québec).

Demographic Indicators for Quebec

IDQ-0458-E

1. **Summary description:** The data set covers changes in the population and its components (natural and migratory movement), in addition to indicators and rates for mortality, fertility, marriage, divorce and migration.

2a. **Responsible organization:** Bureau de la Statistique du Québec

2b. **Database contact:** Direction de la géostatistique et de l'information, Bureau de la Statistique du Québec, Centre d'information et de documentation, 200 chemin Sainte-Foy, 3rd floor, Québec, Qc G1R 5T4

Phone: (418) 691-2401 Facsimile: (418) 643-4129

2c. **Access mechanisms:** See 11.

3a. **Parameters measured:**
- see 11

3b. **Data acquisition methods:** See 11.

3c. **Geographic coverage:** See 11.

3d. **Geographic units of measure:** See 11.

3e. **Period of record:** See 11.

3f. **Update frequency:** See 11.

4a. **Database storage format:** See 11.

4b. **Database computer environment:** See 11.

5. **Restrictions and conditions:** See 11.

6. **Price information:** See 11.

7. **Corresponding printed sources:** See 11.

8. **Languages:** French.

9. **User aids available:** See 11.

10. **Keywords:** Population; Demography; Sociology

11. **Additional information:** Specific queries may be addressed to the BSQ (Bureau de la Statistique du Québec).

Economic Impact Studies for Quebec

EIE-0455-E

1. **Summary description:** The data set contains the results of simulations carried out using the BSQ input-output model. The results show the economic impact of specific changes likely to occur in the economy of Quebec (for example: their direct and indirect effects on gross domestic product, wages before tax, the labour force, selected taxation and incidental taxation revenue, and imports).
- 2a. **Responsible organization:** Bureau de la Statistique du Québec
- 2b. **Database contact:** Direction de la géostatistique et de l'information, Bureau de la Statistique du Québec, Centre d'information et de documentation, 200 chemin Sainte-Foy, 3rd floor, Québec, Qc G1R 5T4
Phone: (418) 691-2401 *Facsimile:* (418) 643-4129
- 2c. **Access mechanisms:** See 11.
- 3a. **Parameters measured:**
- see 11
- 3b. **Data acquisition methods:** See 11.
- 3c. **Geographic coverage:** See 11.
- 3d. **Geographic units of measure:** See 11.
- 3e. **Period of record:** See 11.
- 3f. **Update frequency:** See 11.
- 4a. **Database storage format:** See 11.
- 4b. **Database computer environment:** See 11.
5. **Restrictions and conditions:** See 11.
6. **Price information:** See 11.
7. **Corresponding printed sources:** See 11.
8. **Languages:** French.
9. **User aids available:** See 11.
10. **Keywords:** Economics; Institutions; Expenditures
11. **Additional information:** Specific queries may be addressed to the BSQ (Bureau de la Statistique du Québec).

Field Crops

GCU-0457-E

1. **Summary description:** The data set covers land area, yield per hectare, total production and value for the main field crops grown in Quebec, plus information on exports, imports, processing and degree of self-sufficiency. The statistics are available for Quebec as a whole and by agricultural region for corn, oats, barley, mixed grain, corn for fodder, rye, soybeans, tame hay and potatoes.
- 2a. **Responsible organization:** Bureau de la Statistique du Québec
- 2b. **Database contact:** Direction de la géostatistique et de l'information, Bureau de la Statistique du Québec, Centre d'information et de documentation, 200 chemin Sainte-Foy, 3rd floor, Québec, Qc G1R 5T4
Phone: (418) 691-2401 *Facsimile:* (418) 643-4129
- 2c. **Access mechanisms:** See 11.
- 3a. **Parameters measured:**
- see 11
- 3b. **Data acquisition methods:** See 11.
- 3c. **Geographic coverage:** See 11.
- 3d. **Geographic units of measure:** See 11.
- 3e. **Period of record:** See 11.

- 3f. **Update frequency:** See 11.

- 4a. **Database storage format:** See 11.

- 4b. **Database computer environment:** See 11.

5. **Restrictions and conditions:** See 11.

6. **Price information:** See 11.

7. **Corresponding printed sources:** See 11.

8. **Languages:** French.

9. **User aids available:** See 11.

10. **Keywords:** Agriculture; Crops; Harvesting

11. **Additional information:** Specific queries may be addressed to the BSQ (Bureau de la Statistique du Québec).

Fruits

FRU-0456-E

1. **Summary description:** The data set covers the crop estimates for apples, strawberries, raspberries and blueberries in Quebec, the value of these crops to the producer, exports and imports, data on processing and degree of self-sufficiency.
- 2a. **Responsible organization:** Bureau de la Statistique du Québec
- 2b. **Database contact:** Direction de la géostatistique et de l'information, Bureau de la Statistique du Québec, Centre d'information et de documentation, 200 chemin Sainte-Foy, 3rd floor, Québec, Qc G1R 5T4
Phone: (418) 691-2401 *Facsimile:* (418) 643-4129
- 2c. **Access mechanisms:** See 11.
- 3a. **Parameters measured:**
- see 11
- 3b. **Data acquisition methods:** See 11.
- 3c. **Geographic coverage:** See 11.
- 3d. **Geographic units of measure:** See 11.
- 3e. **Period of record:** See 11.
- 3f. **Update frequency:** See 11.
- 4a. **Database storage format:** See 11.
- 4b. **Database computer environment:** See 11.
5. **Restrictions and conditions:** See 11.
6. **Price information:** See 11.
7. **Corresponding printed sources:** See 11.
8. **Languages:** French.
9. **User aids available:** See 11.
10. **Keywords:** Agriculture; Crops; Harvesting
11. **Additional information:** Specific queries may be addressed to the BSQ (Bureau de la Statistique du Québec).

Furbearers

ANF-0446-E

1. **Summary description:** The database covers mink and fox production by pelt type.
- 2a. **Responsible organization:** Bureau de la Statistique du Québec
- 2b. **Database contact:** Direction de la géostatistique et de l'information, Bureau de la Statistique du Québec, Centre d'information et de documentation, 200 chemin Sainte-Foy, 3rd floor, Québec, Qc G1R 5T4
Phone: (418) 691-2401 *Facsimile:* (418) 643-4129
- 2c. **Access mechanisms:** See 11.
- 3a. **Parameters measured:**
- see 11
- 3b. **Data acquisition methods:** See 11.

- 3c. **Geographic coverage:** See 11.
- 3d. **Geographic units of measure:** See 11.
- 3e. **Period of record:** See 11.
- 3f. **Update frequency:** See 11.
- 4a. **Database storage format:** See 11.
- 4b. **Database computer environment:** See 11.
- 5. **Restrictions and conditions:** See 11.
- 6. **Price information:** See 11.
- 7. **Corresponding printed sources:** See 11.
- 8. **Languages:** French.
- 9. **User aids available:** See 11.
- 10. **Keywords:** Wildlife; Mammals; Harvesting
- 11. **Additional information:** Specific queries may be addressed to the BSQ (Bureau de la Statistique du Québec).

Geographic Coding System for Québec and Correspondence Tables

CGQ-0451-E

- 1. **Summary description:** The data set covers not only the geographic code used to identify basic territorial units, but also the characteristics of these units and their inclusion within a variety of land divisions used in Quebec. With the exception of the statistical data on population and land area, the user should be advised that the database consists mainly of place names.
- 2a. **Responsible organization:** Bureau de la Statistique du Québec
- 2b. **Database contact:** Direction de la géostatistique et de l'information, Bureau de la Statistique du Québec, Centre d'information et de documentation, 200 chemin Sainte-Foy, 3rd floor, Québec, Qc G1R 5T4
Phone: (418) 691-2401 *Facsimile:* (418) 643-4129
- 2c. **Access mechanisms:** See 11.
- 3a. **Parameters measured:**
- see 11
- 3b. **Data acquisition methods:** See 11.
- 3c. **Geographic coverage:** See 11.
- 3d. **Geographic units of measure:** See 11.
- 3e. **Period of record:** See 11.
- 3f. **Update frequency:** See 11.
- 4a. **Database storage format:** See 11.
- 4b. **Database computer environment:** See 11.
- 5. **Restrictions and conditions:** See 11.
- 6. **Price information:** See 11.
- 7. **Corresponding printed sources:** See 11.
- 8. **Languages:** French.
- 9. **User aids available:** See 11.
- 10. **Keywords:** Geography; Geographic Information System; Population
- 11. **Additional information:** Specific queries may be addressed to the BSQ (Bureau de la Statistique du Québec).

Health Indicators

ISS-0459-E

- 1. **Summary description:** This data set on health provides indicators divided into four major categories: the determining factors of health, state of health, health resources, and resource use. Geographic breakdown of the data is by province.
- 2a. **Responsible organization:** Bureau de la Statistique du Québec

- 2b. **Database contact:** Direction de la géostatistique et de l'information, Bureau de la Statistique du Québec, Centre d'information et de documentation, 200 chemin Sainte-Foy, 3rd floor, Québec, Qc G1R 5T4

Phone: (418) 691-2401 *Facsimile:* (418) 643-4129

- 2c. **Access mechanisms:** See 11.
- 3a. **Parameters measured:**
- see 11
- 3b. **Data acquisition methods:** See 11.
- 3c. **Geographic coverage:** See 11.
- 3d. **Geographic units of measure:** See 11.
- 3e. **Period of record:** See 11.
- 3f. **Update frequency:** See 11.
- 4a. **Database storage format:** See 11.
- 4b. **Database computer environment:** See 11.
- 5. **Restrictions and conditions:** See 11.
- 6. **Price information:** See 11.
- 7. **Corresponding printed sources:** See 11.
- 8. **Languages:** French.
- 9. **User aids available:** See 11.
- 10. **Keywords:** Health; Human Health; Population
- 11. **Additional information:** Specific queries may be addressed to the BSQ (Bureau de la Statistique du Québec).

Industrial Research and Development in Quebec

RDE-0466-E

- 1. **Summary description:** The data set contains statistics on expenditure and personnel assigned to industrial research and development, by industry grouping, and statistics on industrial research and development funding sources.
- 2a. **Responsible organization:** Bureau de la Statistique du Québec
- 2b. **Database contact:** Direction de la géostatistique et de l'information, Bureau de la Statistique du Québec, Centre d'information et de documentation, 200 chemin Sainte-Foy, 3rd floor, Québec, Qc G1R 5T4
Phone: (418) 691-2401 *Facsimile:* (418) 643-4129
- 2c. **Access mechanisms:** See 11.
- 3a. **Parameters measured:**
- see 11
- 3b. **Data acquisition methods:** See 11.
- 3c. **Geographic coverage:** See 11.
- 3d. **Geographic units of measure:** See 11.
- 3e. **Period of record:** See 11.
- 3f. **Update frequency:** See 11.
- 4a. **Database storage format:** See 11.
- 4b. **Database computer environment:** See 11.
- 5. **Restrictions and conditions:** See 11.
- 6. **Price information:** See 11.
- 7. **Corresponding printed sources:** See 11.
- 8. **Languages:** French.
- 9. **User aids available:** See 11.
- 10. **Keywords:** Expenditures; Industry; Research
- 11. **Additional information:** Specific queries may be addressed to the BSQ (Bureau de la Statistique du Québec).

Inventory of Establishments that Conduct Research and Development in Quebec

RER-0467-E

1. **Summary description:** The data set covers firms that conduct research and development activities in Quebec. The information includes firm address, research objective(s), activities, equipment used, and area of technology which it is involved.
- 2a. **Responsible organization:** Bureau de la Statistique du Québec
- 2b. **Database contact:** Direction de la géostatistique et de l'information, Bureau de la Statistique du Québec, Centre d'information et de documentation, 200 chemin Sainte-Foy, 3rd floor, Québec, Qc G1R 5T4
Phone: (418) 691-2401 *Facsimile:* (418) 643-4129
- 2c. **Access mechanisms:** See 11.
- 3a. **Parameters measured:**
- see 11
- 3b. **Data acquisition methods:** See 11.
- 3c. **Geographic coverage:** See 11.
- 3d. **Geographic units of measure:** See 11.
- 3e. **Period of record:** See 11.
- 3f. **Update frequency:** See 11.
- 4a. **Database storage format:** See 11.
- 4b. **Database computer environment:** See 11.
5. **Restrictions and conditions:** See 11.
6. **Price information:** See 11.
7. **Corresponding printed sources:** See 11.
8. **Languages:** French.
9. **User aids available:** See 11.
10. **Keywords:** Economics; Research; Technology
11. **Additional information:** Specific queries may be addressed to the BSQ (Bureau de la Statistique du Québec).

Labour Force

POP-0462-E

1. **Summary description:** The data set covers the main characteristics of the labour force in Quebec, broken down by sex, years of schooling, age group, industry, profession, economic area and metropolitan area. Selected data for Ontario and Canada are included for purposes of comparison.
- 2a. **Responsible organization:** Bureau de la Statistique du Québec
- 2b. **Database contact:** Direction de la géostatistique et de l'information, Bureau de la Statistique du Québec, Centre d'information et de documentation, 200 chemin Sainte-Foy, 3rd floor, Québec, Qc G1R 5T4
Phone: (418) 691-2401 *Facsimile:* (418) 643-4129
- 2c. **Access mechanisms:** See 11.
- 3a. **Parameters measured:**
- see 11.
- 3b. **Data acquisition methods:** See 11.
- 3c. **Geographic coverage:** See 11.
- 3d. **Geographic units of measure:** See 11.
- 3e. **Period of record:** See 11.
- 3f. **Update frequency:** See 11.
- 4a. **Database storage format:** See 11.
- 4b. **Database computer environment:** See 11.
5. **Restrictions and conditions:** See 11.

6. **Price information:** See 11.
7. **Corresponding printed sources:** See 11.
8. **Languages:** French.
9. **User aids available:** See 11.
10. **Keywords:** Economics; Industry; Population
11. **Additional information:** Specific queries may be addressed to the BSQ (Bureau de la Statistique du Québec).

Manufacturing Industries

IMA-0460-E

1. **Summary description:** The data set contains economic statistics on the manufacturing sector in the areas of inventory, inputs, outputs, labour force, wages and value added by industry, firm size, region, type of firm, and destination of shipments.
- 2a. **Responsible organization:** Bureau de la Statistique du Québec
- 2b. **Database contact:** Direction de la géostatistique et de l'information, Bureau de la Statistique du Québec, Centre d'information et de documentation, 200 chemin Sainte-Foy, 3rd floor, Québec, Qc G1R 5T4
Phone: (418) 691-2401 *Facsimile:* (418) 643-4129
- 2c. **Access mechanisms:** See 11.
- 3a. **Parameters measured:**
- see 11
- 3b. **Data acquisition methods:** See 11.
- 3c. **Geographic coverage:** See 11.
- 3d. **Geographic units of measure:** See 11.
- 3e. **Period of record:** See 11.
- 3f. **Update frequency:** See 11.
- 4a. **Database storage format:** See 11.
- 4b. **Database computer environment:** See 11.
5. **Restrictions and conditions:** See 11.
6. **Price information:** See 11.
7. **Corresponding printed sources:** See 11.
8. **Languages:** French.
9. **User aids available:** See 11.
10. **Keywords:** Construction; Industry; Economics
11. **Additional information:** Specific queries may be addressed to the BSQ (Bureau de la Statistique du Québec).

Maple Products

PE-0463-E

1. **Summary description:** The data set covers volume and value of the production of maple syrup in large containers, direct farm sales and own-account consumption, syrup volume subject to Quebec and federal inspection, inventories of maple syrup, Canadian and Quebec exports, and production volume and value for the other provinces.
- 2a. **Responsible organization:** Bureau de la Statistique du Québec
- 2b. **Database contact:** Direction de la géostatistique et de l'information, Bureau de la Statistique du Québec, Centre d'information et de documentation, 200 chemin Sainte-Foy, 3rd floor, Québec, Qc G1R 5T4
Phone: (418) 691-2401 *Facsimile:* (418) 643-4129
- 2c. **Access mechanisms:** See 11.
- 3a. **Parameters measured:**
- see 11
- 3b. **Data acquisition methods:** See 11.
- 3c. **Geographic coverage:** See 11.

- 3d. **Geographic units of measure:** See 11.
- 3e. **Period of record:** See 11.
- 3f. **Update frequency:** See 11.
- 4a. **Database storage format:** See 11.
- 4b. **Database computer environment:** See 11.
- 5. **Restrictions and conditions:** See 11.
- 6. **Price information:** See 11.
- 7. **Corresponding printed sources:** See 11.
- 8. **Languages:** French.
- 9. **User aids available:** See 11.
- 10. **Keywords:** Agriculture; Plants; Trees
- 11. **Additional information:** Specific queries may be addressed to the BSQ (Bureau de la Statistique du Québec).

Marital Status Statistics

SEC-0468-E

- 1. **Summary description:** The data set enables the collection, processing and utilization of data on births, marriages, deaths, stillbirths, and divorces.
- 2a. **Responsible organization:** Bureau de la Statistique du Québec
- 2b. **Database contact:** Direction de la géostatistique et de l'information, Bureau de la Statistique du Québec, Centre d'information et de documentation, 200 chemin Sainte-Foy, 3rd floor, Québec, Qc G1R 5T4
Phone: (418) 691-2401 *Facsimile:* (418) 643-4129
- 2c. **Access mechanisms:** See 11.
- 3a. **Parameters measured:**
- see 11
- 3b. **Data acquisition methods:** See 11.
- 3c. **Geographic coverage:** See 11.
- 3d. **Geographic units of measure:** See 11.
- 3e. **Period of record:** See 11.
- 3f. **Update frequency:** See 11.
- 4a. **Database storage format:** See 11.
- 4b. **Database computer environment:** See 11.
- 5. **Restrictions and conditions:** See 11.
- 6. **Price information:** See 11.
- 7. **Corresponding printed sources:** See 11.
- 8. **Languages:** French.
- 9. **User aids available:** See 11.
- 10. **Keywords:** Demography; Statistics; Population
- 11. **Additional information:** Specific queries may be addressed to the BSQ (Bureau de la Statistique du Québec).

Market Gardening

CUL-0453-E

- 1. **Summary description:** The data set contains statistics on the area, production and value of the principal vegetables grown commercially in Québec, as well as on exports and imports, processing and degree of self-sufficiency.
- 2a. **Responsible organization:** Bureau de la Statistique du Québec
- 2b. **Database contact:** Direction de la géostatistique et de l'information, Bureau de la Statistique du Québec, Centre d'information et de documentation, 200 chemin Sainte-Foy, 3rd floor, Québec, Qc G1R 5T4
Phone: (418) 691-2401 *Facsimile:* (418) 643-4129
- 2c. **Access mechanisms:** See 11.

3a. Parameters measured:

- see 11

- 3b. **Data acquisition methods:** See 11.
- 3c. **Geographic coverage:** See 11.
- 3d. **Geographic units of measure:** See 11.
- 3e. **Period of record:** See 11.
- 3f. **Update frequency:** See 11.
- 4a. **Database storage format:** See 11.
- 4b. **Database computer environment:** See 11.
- 5. **Restrictions and conditions:** See 11.
- 6. **Price information:** See 11.
- 7. **Corresponding printed sources:** See 11.
- 8. **Languages:** French.
- 9. **User aids available:** See 11.
- 10. **Keywords:** Agriculture; Crops; Harvesting
- 11. **Additional information:** Specific queries may be addressed to the BSQ (Bureau de la Statistique du Québec).

Population Estimates

PDE-0464-E

- 1. **Summary description:** The data set provides population and household estimates for the years 1986 to 2061, by age, sex, year, population component, reference scenario and geographic location.
- 2a. **Responsible organization:** Bureau de la Statistique du Québec
- 2b. **Database contact:** Direction de la géostatistique et de l'information, Bureau de la Statistique du Québec, Centre d'information et de documentation, 200 chemin Sainte-Foy, 3rd floor, Québec, Qc G1R 5T4
Phone: (418) 691-2401 *Facsimile:* (418) 643-4129
- 2c. **Access mechanisms:** See 11.
- 3a. **Parameters measured:**
- see 11
- 3b. **Data acquisition methods:** See 11.
- 3c. **Geographic coverage:** See 11.
- 3d. **Geographic units of measure:** See 11.
- 3e. **Period of record:** See 11.
- 3f. **Update frequency:** See 11.
- 4a. **Database storage format:** See 11.
- 4b. **Database computer environment:** See 11.
- 5. **Restrictions and conditions:** See 11.
- 6. **Price information:** See 11.
- 7. **Corresponding printed sources:** See 11.
- 8. **Languages:** French.
- 9. **User aids available:** See 11.
- 10. **Keywords:** Population; Demography; Households
- 11. **Additional information:** Specific queries may be addressed to the BSQ (Bureau de la Statistique du Québec).

Poultry Industry

AVI-0448-E

- 1. **Summary description:** The data set covers egg incubation, chick and poultry farming broken down into reproductive and consumer products (egg/meat type), distribution of birds on poultry farms, slaughter, production of eggs for the consumer market, and the average monthly price of various poultry products.
- 2a. **Responsible organization:** Bureau de la Statistique du Québec

- 2b. Database contact:** Direction de la géostatistique et de l'information, Bureau de la Statistique du Québec, Centre d'information et de documentation, 200 chemin Sainte-Foy, 3rd floor, Québec, Qc G1R 5T4
Phone: (418) 691-2401 *Facsimile:* (418) 643-4129
- 2c. Access mechanisms:** See 11.
- 3a. Parameters measured:**
 - see 11
- 3b. Data acquisition methods:** See 11.
- 3c. Geographic coverage:** See 11.
- 3d. Geographic units of measure:** See 11.
- 3e. Period of record:** See 11.
- 3f. Update frequency:** See 11.
- 4a. Database storage format:** See 11.
- 4b. Database computer environment:** See 11.
- 5. Restrictions and conditions:** See 11.
- 6. Price information:** See 11.
- 7. Corresponding printed sources:** See 11.
- 8. Languages:** French.
- 9. User aids available:** See 11.
- 10. Keywords:** Agriculture; Birds; Harvesting
- 11. Additional information:** Specific queries may be addressed to the BSQ (Bureau de la Statistique du Québec).

Private and Public Investment

IPP-0461-E

- 1. Summary description:** The data set covers private investment in Quebec by administrative region (16 regions) and by economic sector (1970 three-digit Standard Industrial Classification), and public investment by type of public agency and administrative region.
- 2a. Responsible organization:** Bureau de la Statistique du Québec
- 2b. Database contact:** Direction de la géostatistique et de l'information, Bureau de la Statistique du Québec, Centre d'information et de documentation, 200 chemin Sainte-Foy, 3rd floor, Québec, Qc G1R 5T4
Phone: (418) 691-2401 *Facsimile:* (418) 643-4129
- 2c. Access mechanisms:** See 11.
- 3a. Parameters measured:**
 - see 11
- 3b. Data acquisition methods:** See 11.
- 3c. Geographic coverage:** See 11.
- 3d. Geographic units of measure:** See 11.
- 3e. Period of record:** See 11.
- 3f. Update frequency:** See 11.
- 4a. Database storage format:** See 11.
- 4b. Database computer environment:** See 11.
- 5. Restrictions and conditions:** See 11.
- 6. Price information:** See 11.
- 7. Corresponding printed sources:** See 11.
- 8. Languages:** French.
- 9. User aids available:** See 11.
- 10. Keywords:** Economics; Expenditures; Government
- 11. Additional information:** Specific queries may be addressed to the BSQ (Bureau de la Statistique du Québec).

Survey of Household Appliances, by Income

EEM-0454-E

- 1. Summary description:** The data set is made up of the results of a survey of selected household appliances and household characteristics and income.
- 2a. Responsible organization:** Bureau de la Statistique du Québec
- 2b. Database contact:** Direction de la géostatistique et de l'information, Bureau de la Statistique du Québec, Centre d'information et de documentation, 200 chemin Sainte-Foy, 3rd floor, Québec, Qc G1R 5T4
Phone: (418) 691-2401 *Facsimile:* (418) 643-4129
- 2c. Access mechanisms:** See 11.
- 3a. Parameters measured:**
 - see 11
- 3b. Data acquisition methods:** See 11.
- 3c. Geographic coverage:** See 11.
- 3d. Geographic units of measure:** See 11.
- 3e. Period of record:** See 11.
- 3f. Update frequency:** See 11.
- 4a. Database storage format:** See 11.
- 4b. Database computer environment:** See 11.
- 5. Restrictions and conditions:** See 11.
- 6. Price information:** See 11.
- 7. Corresponding printed sources:** See 11.
- 8. Languages:** French.
- 9. User aids available:** See 11.
- 10. Keywords:** Households; Sociology; Economics
- 11. Additional information:** Specific queries may be addressed to the BSQ (Bureau de la Statistique du Québec).



Centre de recherche industrielle du Québec

Industrial Information Database

BII-0077-E

- 1. Summary description:** Identification and description of manufacturers and their products, wholesalers and products distributed.
- 2a. Responsible organization:** Centre de recherche industrielle du Québec
- 2b. Database contact:** Mr. Bernard Turgeon, Banque d'information industrielle, Centre de recherche industrielle du Québec, 333 rue Franquet, P.O. Box 9038, Sainte-Foy, Qc G1V 4C7
Phone: (418) 652-2213 *Facsimile:* (418) 652-2212
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - identification of manufacturer or business
 - description of manufacturer or business
 - products manufactured or distributed
 - top management
 - number of employees
 - economic activity code
 - sales figures
 - country of export
 - quality assurance standards

- 3b. Data acquisition methods:** Questionnaires completed by the firms.
- 3c. Geographic coverage:** Quebec.
- 3d. Geographic units of measure:** Establishment, municipality, regional county municipality, census division, postal code, administrative region.
- 3e. Period of record:** Current data.
- 3f. Update frequency:** Ongoing.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** HP 3000, MINISYS. PC.
- 5. Restrictions and conditions:** Some data confidential (copyrights), see data centre contact.
- 6. Price information:** \$120.00 minimum for hardcopy (see 11).
- 7. Corresponding printed sources:** Catalogues of products available in Quebec.
- 8. Languages:** French.
- 9. User aids available:** Information kit that describes the data bank and gives the search criteria for the various establishments.
- 10. Keywords:** Manufacturing; Natural resources; Industry
- 11. Additional information:** Other charges include: \$300.00 minimum per tape (minimum 1,000 files). The complete database is also available for \$750.00 (complete version) or \$450.00 (selected certain information deleted).



Ministère de l'Agriculture, des Pêcheries et de l'Alimentation

Commercial Fishery Statistics

SPC-0076-E

- 1. Summary description:** Daily catch for commercial fishery licences issued by MAPAQ (Ministère de l'Agriculture, des Pêcheries et de l'Alimentation) for freshwater, anadromous and catadromous species.
- 2a. Responsible organization:** Ministère de l'Agriculture, des Pêcheries et de l'Alimentation
- 2b. Database contact:** Mr. Gérald Johnson, Service du développement des activités régionales, Ministère de l'Agriculture, des Pêcheries et de l'Alimentation, 200A Chemin Sainte-Foy, 1st floor, Québec, Qc G1R 4X6
Phone: (418) 646-3020 Facsimile: (418) 643-8820
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- name and address of fisherman
 - licence (number, type)
 - fishing sector
 - daily catch (species caught)
- 3b. Data acquisition methods:** Compilation of data drawn from a range of sources. Data drawn mainly from fishermen's account books, with annual validation. Spot checks.
- 3c. Geographic coverage:** Quebec.
- 3d. Geographic units of measure:** Ports of landing identified by geographic code, fishing zone, regional county municipality, administrative region.
- 3e. Period of record:** 1986 to present.
- 3f. Update frequency:** Annually.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** DGI (Ministère des Communications) central computer.

- 5. Restrictions and conditions:** Some confidential data, prior authorization required.
- 6. Price information:** Varies with request.
- 7. Corresponding printed sources:** MAPAQ, *Service du développement des activités régionales*. Commercial fishery statistics from 1986 to 1992.
- 8. Languages:** French.
- 9. User aids available:** None.
- 10. Keywords:** Lakes; Statistics; Fisheries
- 11. Additional information:** None.

Fish Production

PP-0081-E

- 1. Summary description:** Database on fish production in Quebec.
- 2a. Responsible organization:** Ministère de l'Agriculture, des Pêcheries et de l'Alimentation
- 2b. Database contact:** Mr. Gérald Johnson, Service du développement des activités régionales, Ministère de l'Agriculture, des Pêcheries et de l'Alimentation, 200A Sainte-Foy Road, 1st floor, Québec, Qc G1R 4X6
Phone: (418) 646-3020 Facsimile: (418) 643-8820
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- name and address of fish producer
 - licence number
 - species produced
 - annual production
- 3b. Data acquisition methods:** Compilation of data drawn from a range of sources. Data drawn mainly from fish producers' account books, with annual validation. Spot checks.
- 3c. Geographic coverage:** Quebec.
- 3d. Geographic units of measure:** Operating sites identified by geographic code, regional county municipality, administrative region.
- 3e. Period of record:** Not applicable.
- 3f. Update frequency:** Annually.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, DBASE, CLIPPER.
- 5. Restrictions and conditions:** Some data confidential, prior authorization required.
- 6. Price information:** Varies with request.
- 7. Corresponding printed sources:** None.
- 8. Languages:** French.
- 9. User aids available:** None.
- 10. Keywords:** Biology; Fisheries; Harvesting
- 11. Additional information:** None.

Program of Assistance to Improving Fertilizer Management

PAA-0015-E

- 1. Summary description:** Data on the financial assistance granted to farm producers within the framework of the assistance program for the improvement of fertilizer management.
- 2a. Responsible organization:** Ministère de l'Agriculture, des Pêcheries et de l'Alimentation
- 2b. Database contact:** Ms. Louise D. Matte, Service des subventions, Ministère de l'Agriculture, des Pêcheries et de l'Alimentation, 200A Chemin Sainte-Foy, 8th floor, Québec, Qc G1R 4X6
Phone: (418) 643-3081 Facsimile: (418) 646-0869

- 2c. **Access mechanisms:** Through the Service des subventions.
- 3a. **Parameters measured:**
- amount of financial assistance
 - amount by grant component
 - number and type of animal units
 - total stored volume
 - address of applicant
- 3b. **Data acquisition methods:** Reading of grant applications and verifications. Data capture in the regions by the regional branches. Information provided by applicant and on-site visits for purposes of verification.
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** Municipality, county, regional county municipality, administrative region.
- 3e. **Period of record:** 1988 to present.
- 3f. **Update frequency:** Weekly.
- 4a. **Database storage format:** Hardcopy, diskette, tape.
- 4b. **Database computer environment:** DGI (Ministère des Communications) central computer.
5. **Restrictions and conditions:** Personal data set.
6. **Price information:** According to scope of request.
7. **Corresponding printed sources:** Report on request.
8. **Languages:** French.
9. **User aids available:** None.
10. **Keywords:** Agriculture; Fertilizers; Rural areas
11. **Additional information:** This database was managed from 1988 to 1993 by MENVIQ (Ministère de l'Environnement du Québec). Since April 1993, it has been the responsibility of the Ministère de l'Agriculture, des Pêcheries et de l'Alimentation. Formerly responsible: Ms Yolaine Blais, Direction du milieu agricole et contrôle des pesticides, Ministère de l'Environnement du Québec, 2360 chemin Sainte-Foy, Sainte-Foy, Qc, G1V 4H2,

Reference Database on Quebec Soil

BIR-0075-E

1. **Summary description:** Reference data bank containing descriptive data on sites and analytical results drawn from the soil inventory (pedology), soil degradation and results of research in soil chemistry, physics, fertility and conservation (produced by the Service des sols).
- 2a. **Responsible organization:** Ministère de l'Agriculture, des Pêcheries et de l'Alimentation
- 2b. **Database contact:** Mr. Gérard Laflamme, Service des sols, Ministère de l'Agriculture, des Pêcheries et de l'Alimentation, Complexe Scientifique, 2700 Einstein, Room C.1.320, Sainte-Foy, Qc G1P 3W8
Phone: (418) 644-6958 Facsimile: (418) 644-6855
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- descriptive and analytical data on Quebec soil or soil series
 - material and method
 - results
 - discussions and research conclusions on Quebec soil
- 3b. **Data acquisition methods:** Compilation of data drawn from a range of publications. Government publications (pedology studies, scientific and technical reports). Scientific publications from a variety of scientific journals.
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** Sites defined by latitudes and longitude, municipality, county, regional county municipality, administrative region.
- 3e. **Period of record:** 1969 to present.
- 3f. **Update frequency:** None.

- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, NATUREL (MODEM).
5. **Restrictions and conditions:** Authorization required.
6. **Price information:** None.
7. **Corresponding printed sources:** None.
8. **Languages:** French.
9. **User aids available:** Yes, planned.
10. **Keywords:** Soils; Pedology; Rural areas
11. **Additional information:** Database is accessible by modem for authorized users.



Ministère de l'Énergie et des Ressources du Québec

Cadastre Information System

SIC-0066-E

1. **Summary description:** Registered lots, including date of registration, status, comments, for all land in the province registered under the cadastre system.
- 2a. **Responsible organization:** Ministère de l'Énergie et des Ressources du Québec
- 2b. **Database contact:** Mr. Jean-Guy Forget, Direction de l'enregistrement cadastrale, Ministère de l'Énergie et des Ressources du Québec, 5700 4^e Avenue Ouest, Section G312, Charlesbourg, Qc G1H 6R1
Phone: (418) 643-4660 Facsimile: (418) 643-8987
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- information on registered lots (date of registration, status, comments)
- 3b. **Data acquisition methods:** Compilation of data drawn from the index (files).
- 3c. **Geographic coverage:** Quebec (part registered under the cadastre system).
- 3d. **Geographic units of measure:** Lots and cadastres referenced using MTM coordinates.
- 3e. **Period of record:** 1981 to present.
- 3f. **Update frequency:** Ongoing.
- 4a. **Database storage format:** Hardcopy, diskette, tape.
- 4b. **Database computer environment:** Ministère des Communications central computer, VSAM in-house software.
5. **Restrictions and conditions:** Some confidential data, prior authorization required.
6. **Price information:** Consultation free; cost of document distribution variable.
7. **Corresponding printed sources:** Index of registered lots for each cadastre, number of pages varies by cadastre.
8. **Languages:** French.
9. **User aids available:** User's guide.
10. **Keywords:** Geography; Gulf of St. Lawrence; Rivers; Land use
11. **Additional information:** This database is to be modernized (ORACLE on VAX) in approximately one year for conversion to a geographic database system; graphics data will be incorporated by means of a geographic information system. Partially digitized cartography.

City Maps (1:1 000)

CU-0069-E

1. **Summary description:** Digital files of city maps for 350 Quebec municipalities.
- 2a. **Responsible organization:** Ministère de l'Énergie et des Ressources du Québec
- 2b. **Database contact:** Mr. Raynald Cyr, Service de la cartographie, Direction des relevés techniques, Ministère de l'Énergie et des Ressources du Québec, 1995 Charest boul. Ouest, Sainte-Foy, Qc G1N 4H9
Phone: (418) 643-4296 Facsimile: (418) 644-4935
- 2c. **Access mechanisms:** Municipalities and Photocartotheque (see 11).
- 3a. **Parameters measured:**
 - highway networks and other transportation corridors
 - buildings and various structures
 - green spaces and parks
 - other cartography components that vary according to municipality
- 3b. **Data acquisition methods:** By stereodigitization of aerial photographs. Aerial photographs to a scale of 1:5 000.
- 3c. **Geographic coverage:** Urban areas of 350 Quebec municipalities.
- 3d. **Geographic units of measure:** Varied geographic units referenced using MTM projection coordinates; according to the Système québécois de référence cartographique (SQRC).
- 3e. **Period of record:** 1985 to 1989.
- 3f. **Update frequency:** Varies with the needs of the municipalities (see 11).
- 4a. **Database storage format:** Hardcopy, diskette, tape.
- 4b. **Database computer environment:** Interpro (INTERGRAPH) workstation, UNIX, MICROSTATION.
5. **Restrictions and conditions:** Contract for use (copyright protection).
6. **Price information:** \$300.00 per file (Photocartotheque), may vary.
7. **Corresponding printed sources:** City maps 1:1 000, copies available on request.
8. **Languages:** French.
9. **User aids available:** 1:1 000 topographical map production standards.
10. **Keywords:** Urban; Geography; Geographic Information System;
11. **Additional information:**
 1. The municipalities are responsible for updating their city maps; some of them have the digital files and do their own updating. These municipalities may on occasion provide digital files. The hard copy maps are usually available from all the municipalities concerned.
 2. Available from the Photocartotheque québécoise, 1995 boul. Charest Ouest, Sainte-Foy, Qc, G1N 4H9, Phone: (418) 643-7704, Facsimile: (418) 646-6706.

COGITE

COG-0062-E

1. **Summary description:** Contains information related to mineral deposits in Quebec. Earth science information available for each indicator of metal-bearing ore, industrial mineral or construction material.
- 2a. **Responsible organization:** Ministère de l'Énergie et des Ressources du Québec

2b. **Database contact:** Mr. Yves Bellemare, Service d'information et de soutien à l'exploration minière, Ministère de l'Énergie et des Ressources du Québec, 5700 4^e Avenue Ouest, Bureau A-201, Charlesbourg, Qc G1H 6R1

Phone: (418) 646-3139 Facsimile: (418) 644-3814

- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - deposits
 - map reference
 - geological and deposit description
 - background, mining exploration work
- 3b. **Data acquisition methods:** Compilation of information drawn from earth science documents.
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** Mineral deposits referenced using UTM, MTM and NTS coordinates, administrative region.
- 3e. **Period of record:** 1840 to present.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE, MINISYS (Multi-Media).
5. **Restrictions and conditions:** None.
6. **Price information:** \$10.00 per diskette, \$50.00 per hour (Multi-Media).
7. **Corresponding printed sources:** Bellemare, Yves, and Germain, Marc, *Catalogue des gîtes minéraux du Québec*, 1987, report No. DV-87-23, 279 pages, may be consulted on site, copies available on request. Map showing position of mineral deposits (FGCL), may also be consulted on site and copies are available on request. Annual publication, *Liste des nouveaux indices minéralisés*, published from 1987 to date, copy available on request.
8. **Languages:** French.
9. **User aids available:** Operating manual for Multi-Media information utility.
10. **Keywords:** Geology; Minerals; North
11. **Additional information:**
 1. Direct access to this information is available through the information utility of Multi-Media Inc. document services: Marielle Boucher, 75 rue Port Royal E., Suite 300, Montreal, Qc, H3L 3T1, Phone: (514) 382-0895.
 2. A new database published annually on diskette and hard copy is available by direct access.
 3. The new indicators are published in *Repères*, a bimonthly publication on new Service d'information acquisitions, subscriptions free on request.

Database of Analyses of Quebec rocks

BAR-0059-E

1. **Summary description:** Lithogeochemical analyses, spatially referenced with geological descriptions.
- 2a. **Responsible organization:** Ministère de l'Énergie et des Ressources du Québec
- 2b. **Database contact:** Mr. Michel Leduc, Direction de la recherche géologique, Ministère de l'Énergie et des Ressources du Québec, 5700 4^e Avenue Ouest, Suite A-209, Charlesbourg, Qc G1H 6R1
Phone: (418) 646-2613 Facsimile: (418) 643-2816
- 2c. **Access mechanisms:** Service d'information et de soutien à l'exploration minière.
- 3a. **Parameters measured:**
 - 15 chemical compounds
 - 60 different elements

- 3b. **Data acquisition methods:** Lithogeochemical analyses. Lithogeochemical analyses requested by MER (Ministère de l'Énergie et des Ressources du Québec) teams and their contractors. Analyses conducted by the Centre de recherche minéral.
- 3c. **Geographic coverage:** Quebec, density varies by sector.
- 3d. **Geographic units of measure:** Sampling sites identified by UTM coordinates.
- 3e. **Period of record:** 1971 to present.
- 3f. **Update frequency:** 2 or 3 times weekly.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** DGI central computer, SI-GALS in-house software.
5. **Restrictions and conditions:** Some data confidential. Data validated before distribution.
6. **Price information:** \$10.00 per diskette.
7. **Corresponding printed sources:** Geological reports published by MER, on-site consultation, copy on request. Annual document on diskette.
8. **Languages:** French.
9. **User aids available:** None.
10. **Keywords:** Geology; Minerals; Geography
11. **Additional information:** This database and others (BADGEQ and COGITE) are to be integrated into a new information system (SIGÉOM).

Drilling

FOR-0064-E

1. **Summary description:** Identification and map reference, oil and natural gas (exploration and operation) drilling sites in Quebec.
- 2a. **Responsible organization:** Ministère de l'Énergie et des Ressources du Québec
- 2b. **Database contact:** Mr. Jacques Gilbert, Direction du gaz et du pétrole, Ministère de l'Énergie et des Ressources du Québec, 5700 4^e Avenue Ouest, local A-407, Charlesbourg, Qc G1H 6R1
Phone: (418) 643-7984 *Facsimile:* (418) 643-8337
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - identification of drilling sites
 - position of drilling sites
 - exploration or operation type (oil, natural gas)
- 3b. **Data acquisition methods:** Compilation of information from drilling reports. Reports prepared by exploration or operation companies.
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** Drilling sites referenced by latitude and longitude.
- 3e. **Period of record:** 1850 to present. Some older data may be missing.
- 3f. **Update frequency:** Ongoing.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE IV.
5. **Restrictions and conditions:** some data confidential, prior authorization required.
6. **Price information:** Based on government policy.
7. **Corresponding printed sources:** Drilling operation report: year, number of pages and author vary by drilling operation.
8. **Languages:** French.
9. **User aids available:** None.
10. **Keywords:** Atlantic; Exploration; Oil
11. **Additional information:** None.

EXAMINE

EXA-0060-E

1. **Summary description:** Contains over 60,000 bibliography references to earth science documents: department publications, company records of mining exploration, and dissertations on earth science-related topics.
- 2a. **Responsible organization:** Ministère de l'Énergie et des Ressources du Québec
- 2b. **Database contact:** Mr. José Vinals, Service d'information et de soutien à l'exploration minière, Ministère de l'Énergie et des Ressources du Québec, 5700 4^e Avenue Ouest, bureau A-201, Charlesbourg, Qc G1H 6R1
Phone: (418) 646-2402 *Facsimile:* (418) 644-3814
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - keywords
 - titles
 - abstracts
 - topics
 - authors
 - document type
 - year of publication
- 3b. **Data acquisition methods:** Bibliographical compilation.
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** Positions defined using NTS coordinates and also the township and seigneurie system.
- 3e. **Period of record:** Not applicable, but contains references for all mining-related publications and their predecessors.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** HP central computer, PC, Macintosh, MINISYS.
5. **Restrictions and conditions:** None.
6. **Price information:** \$50.00 per hour for Multi-Media document services.
7. **Corresponding printed sources:** *Repères*, a bimonthly bulletin on the subject of new acquisitions by the Service d'information. Subscription free on request. Catalogue of publications by the Direction générale exploration géologique et minérale (DGEGM) publications, annual.
8. **Languages:** Mainly French, some information in English.
9. **User aids available:** Assistance available from the Multi-Media document services information utility.
10. **Keywords:** Geology; Minerals; Exploration
11. **Additional information:** Direct access to this information is available through the information utility of Multi-Media Inc. (SDM Inc.) document services: Marielle Boucher, 75 rue Port Royal E., Suite 300, Montréal, Qc, H3L 3T1, Phone: (514) 382-0895.

GÉODEQ

GÉO-0073-E

1. **Summary description:** Database of the Quebec geodetic network: covers map references and elevations of bench marks in Quebec.
- 2a. **Responsible organization:** Ministère de l'Énergie et des Ressources du Québec
- 2b. **Database contact:** Mr. Hubert Rousseau, Service de géodésie, Direction des relevés techniques, Ministère de l'Énergie et des Ressources du Québec, 1995 boul. Charest Ouest, Sainte-Foy, Qc G1N 4H9
Phone: (418) 643-8236 *Facsimile:* (418) 644-4935

- 2c. Access mechanisms:** Through the Photocartotheque québécoise (see 11).
- 3a. Parameters measured:**
- point coordinates
 - elevation
 - description of monument and site
 - bench mark measurement to locate points
- 3b. Data acquisition methods:** Earth or satellite based (GPS) measurement. Collection of older data based on ground surveys; new data collected using GPS (Global Positioning System).
- 3c. Geographic coverage:** Quebec.
- 3d. Geographic units of measure:** Bench marks positioned using UTM and SCOPQ (Système de coordonnées planes du Québec) coordinates, cartography folia, municipalities.
- 3e. Period of record:** Not applicable.
- 3f. Update frequency:** Ongoing addition of new bench marks.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, RAPTEC (software free with technical data files),
- 5. Restrictions and conditions:** Cautionary note for some data (see 11).
- 6. Price information:** Varies according to product (from \$0.85 to \$6.00 per unit).
- 7. Corresponding printed sources:** *Guide d'utilisation du réseau géodésique en milieu urbain*. Instructions for setting up a basic geodesic network. Operating standards for fourth-order city map control surveys. Interrogation of GÉODEQ II system, Guide for the outside user. Geodesic information distributed in mass storage medium.
- 8. Languages:** French.
- 9. User aids available:** See references.
- 10. Keywords:** Geodesy; Minerals; North
- 11. Additional information:**
1. Data available from the Photocartotheque québécoise, 1995 boul. Charest Ouest, Sainte-Foy, Qc, G1N 4H9, Phone: (418) 644-3387, Facsimile: (418) 644-4935. Also direct access (modem): base rate \$200.00, \$0.25 per second of use.
 2. Cautionary note issued for some unproven data (concerning a restricted number of points). In such cases, release from responsibility is required.

Information System on Land Tenure and Allocation

SIT-0063-E

- 1. Summary description:** Index of land fragmentation according to primitive surveying methods, information on the rights of the Quebec government and the permanent or temporary rights granted over time.
- 2a. Responsible organization:** Ministère de l'Énergie et des Ressources du Québec
- 2b. Database contact:** Mr. Hugues Giguère, Service de la concession des terres, Direction de la gestion du territoire, Ministère de l'Énergie et des Ressources du Québec, 5700 4^e Avenue Ouest, Room D-301, Charlesbourg, Qc G1H 6R1
Phone: (418) 643-4762 Facsimile: (418) 646-6847
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- name of township
 - date of transaction
 - land designation (township, range)
 - rights granted (nature of right, date, beneficiary, area)

- 3b. Data acquisition methods:** Compilation of data drawn from a variety of sources. Data drawn from documents related to various types of transactions.
- 3c. Geographic coverage:** Quebec, excluding the major part of the Saint Lawrence valley.
- 3d. Geographic units of measure:** Land designations, MER (Ministère de l'Énergie et des Ressources du Québec) administrative regions.
- 3e. Period of record:** 1750 to present.
- 3f. Update frequency:** Ongoing.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** DGI central computer, CICS, PC.
- 5. Restrictions and conditions:** Prior authorization (see 11).
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** French.
- 9. User aids available:** User's guide.
- 10. Keywords:** Geography; Land use; Surveys
- 11. Additional information:** The user must be authorized by the resource person to access the data bank, and have access to a terminal hooked up to the computers at the ministère des Communications du Québec.

MER Geophysical Database

MAG-0058-E

- 1. Summary description:** Geophysical, electromagnetic and magnetic data based on the various surveys conducted for MER (Ministère de l'Énergie et des Ressources du Québec) since 1969.
- 2a. Responsible organization:** Ministère de l'Énergie et des Ressources du Québec
- 2b. Database contact:** Mr. Denis-Jaques Dion, Direction de la recherche géologique, Ministère de l'Énergie et des Ressources du Québec, 5700 4^e Avenue Ouest, Bureau A-209, Charlesbourg, Qc G1H 6R1
Phone: (418) 646-2610 Facsimile: (418) 643-2816
- 2c. Access mechanisms:** Service d'information et de soutien à l'exploration minière.
- 3a. Parameters measured:**
- electromagnetic and magnetic data
- 3b. Data acquisition methods:** Geophysical, electromagnetic and magnetic surveys. Surveys conducted by airplane or helicopter.
- 3c. Geographic coverage:** Abitibi, Labrador trough, Eastern Townships, Beauce and Gaspé.
- 3d. Geographic units of measure:** Survey grids identified using UTM coordinates.
- 3e. Period of record:** 1969 to present.
- 3f. Update frequency:** At the end of each geophysical survey project.
- 4a. Database storage format:** Diskette ("Grid" files), tape (each survey fills between 1 and 3 50 Mb tapes).
- 4b. Database computer environment:** PC, MAGGY and GEO-PAK (in-house software).
- 5. Restrictions and conditions:** None.
- 6. Price information:** \$100.00 per tape, \$10.00 per diskette.
- 7. Corresponding printed sources:** SIAL Géophysique INC., *User's Guide and Report*, 1990, 88 pages.
- 8. Languages:** French.
- 9. User aids available:** User's guide.
- 10. Keywords:** Geodesy; Geophysics; Landscape

11. **Additional information:** None.

Map Library

CAR-0065-E

1. **Summary description:** List of the oil-drilling samples stored in the cartothèque, with description of form, condition and map reference. Over 6,800 records.
- 2a. **Responsible organization:** Ministère de l'Énergie et des Ressources du Québec
- 2b. **Database contact:** Mr. Jacques Gilbert, Direction du gaz et du pétrole, Ministère de l'Énergie et des Ressources du Québec, 5700 4^e Avenue Ouest, Room A-407, Charlesbourg, Qc G1H 6R1
Phone: (418) 643-7984 *Facsimile:* (418) 643-8337
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - description of samples (form, condition, map reference)
- 3b. **Data acquisition methods:** Compilation of information from drilling reports. Reports prepared by exploration or operation companies.
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** Drilling sites referenced by latitude and longitude.
- 3e. **Period of record:** 1850 to present.
- 3f. **Update frequency:** Ongoing.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE IV.
5. **Restrictions and conditions:** Some data is confidential, prior authorization required.
6. **Price information:** Based on government policy.
7. **Corresponding printed sources:** Drilling operation report: year, number of pages and author varies by drilling operation.
8. **Languages:** French.
9. **User aids available:** None.
10. **Keywords:** Geography; Atlantic; Exploration; Oil
11. **Additional information:** None.

Mining Geology Information System

SIG-0061-E

1. **Summary description:** Spatially referenced information system that contains a variety of mining geology data (see 11).
- 2a. **Responsible organization:** Ministère de l'Énergie et des Ressources du Québec
- 2b. **Database contact:** Mr. Charles Roy, Service de la géoinformation, Direction assistance à l'exploration minière, Ministère de l'Énergie et des Ressources du Québec, 5700 4^e Avenue Ouest, Suite A-214, Charlesbourg, Qc G1H 6R1
Phone: (418) 646-2381 *Facsimile:* (418) 643-2816
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - diamond drilling
 - electromagnetic data
- 3b. **Data acquisition methods:** Data drawn from a variety of sources (sampling, analysis, tapping and surveys). Work carried out by MER (Ministère de l'Énergie et des Ressources du Québec) teams, private companies or MER contractors.
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** Sites referenced using UTM coordinates.
- 3e. **Period of record:** 1840 to present. Varies according to data type.

3f. **Update frequency:** Ongoing.

- 4a. **Database storage format:** Hardcopy, diskette, tape.
- 4b. **Database computer environment:** PC, ORACLE, DBASE.
5. **Restrictions and conditions:** None.
6. **Price information:** Varies with request and support type.
7. **Corresponding printed sources:** Numerous internal publications.
8. **Languages:** French.
9. **User aids available:** None.
10. **Keywords:** Mining; Minerals; North
11. **Additional information:** Currently in layout phase. Database contains data on diamond drilling and will in future contain other databases (BADGEQ, BAROQ and COGITE).

Quebec Geochemical Database

BAD-0057-E

1. **Summary description:** Partial analysis of soil, stream sediments, subterranean water, lake sediments, tills and heavy metals.
- 2a. **Responsible organization:** Ministère de l'Énergie et des Ressources du Québec
- 2b. **Database contact:** Mr. Michel Leduc, Direction de la recherche géologique, Ministère de l'Énergie et des Ressources du Québec, 5700 4^e Avenue Ouest, Suite A-209, Charlesbourg, Qc G1H 6R1
Phone: (418) 646-2613 *Facsimile:* (418) 643-2816
- 2c. **Access mechanisms:** Service d'information et de soutien à l'exploration minière.
- 3a. **Parameters measured:**
 - 46 chemical elements
- 3b. **Data acquisition methods:** Sampling and analysis conducted by MER (Ministère de l'Énergie et des Ressources du Québec) teams and private companies under contract to MER. Chemical levels measured by atomic absorption, neutron activation and atomic emission plasma spectroscopy.
- 3c. **Geographic coverage:** Approximately 50 percent of Quebec (mainly southern Quebec).
- 3d. **Geographic units of measure:** Sampling sites identified by UTM coordinates.
- 3e. **Period of record:** 1963 to present.
- 3f. **Update frequency:** Twice weekly.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** DGI central computer, SIGALS in-house software.
5. **Restrictions and conditions:** Some data confidential, data validated before release.
6. **Price information:** \$10.00 per diskette.
7. **Corresponding printed sources:** Kirouac, François, *Répertoire des données géochimiques du Québec 1990, map and report*, 1990, 92 pages. Available for consultation or purchase at the Service d'information et de soutien à l'exploration minière. Numerous reports and maps published by MER may be consulted on site and copies are available on request.
8. **Languages:** French.
9. **User aids available:** None.
10. **Keywords:** Soils; Geochemistry; Pedology
11. **Additional information:** This database and others (BAROQ and COGITE) are to be integrated into a new information system (SIGÉOM).

Regional Maps of Quebec

CRQ-0071-E

1. **Summary description:** Maps printed to scales that range from 1:250 000 to 1:1 500 000, and computer files (1:250 000 according to NTS detail) for a number of regions of Quebec (Laurentians, Lanaudière, Outaouais, Montérégie and l'Estrie); other regions to be available by 1995.
- 2a. **Responsible organization:** Ministère de l'Énergie et des Ressources du Québec
- 2b. **Database contact:** Mr. Réjean Asselin, Service de la cartographie, Direction des relevés techniques, Ministère de l'Énergie et des Ressources du Québec, 1995 boul. Charest Ouest, Sainte-Foy, Qc G1N 4H9
Phone: (418) 643-5534 Facsimile: (418) 644-4935
- 2c. **Access mechanisms:** Through la Photocartotheque québécoise (see 11).
- 3a. **Parameters measured:**
 - highway network and other transportation corridors
 - hydrography
 - toponymy
 - locality
 - hydroelectric network
 - boundary (municipality, RCM, administrative region, aboriginal lands, unorganized territories)
- 3b. **Data acquisition methods:** Digitization of 1:50 000 maps (hydrography and highway network); inclusion of administrative boundaries and data on localities. EMR Canada 1:50 000 maps: localities by population class; FILA data.
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** Municipalities, RCMs, administrative regions, unorganized territories, aboriginal lands.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** On expiry of printed maps (every 3 to 5 years).
- 4a. **Database storage format:** Hardcopy, diskette, tape.
- 4b. **Database computer environment:** Interpro (INTERGRAPH) station, UNIX, MICROSTATION.
5. **Restrictions and conditions:** Contract for use (copyright protection).
6. **Price information:** \$500.00/digital file; hardcopy: \$11.55 per regional map.
7. **Corresponding printed sources:** Printed regional maps (1:250 000).
8. **Languages:** French.
9. **User aids available:** Information brochures on content and products available.
10. **Keywords:** Geography; Geographic Information System; Transportation;
11. **Additional information:**
 1. Available from the Photocartotheque québécoise, 1995 boul. Charest Ouest, Sainte-Foy, Qc, G1N 4H9, Phone: (418) 643-7704, Facsimile: (418) 644-4706.
 2. The other regions of Quebec are to be digitized at a later date.

Topographical Maps (1:20 000)

CT-0067-E

1. **Summary description:** 2 topographical (digital) files: planimetry and hypsometry.
- 2a. **Responsible organization:** Ministère de l'Énergie et des Ressources du Québec

2b. **Database contact:** Mr. Réjean Asselin, Service de la cartographie, Direction des relevés techniques, Ministère de l'Énergie et des Ressources du Québec, 1995 boul. Charest Ouest, Sainte-Foy, Qc G1N 4H9

Phone: (418) 643-5534 Facsimile: (418) 644-4935

- 2c. **Access mechanisms:** Through the Photocartotheque québécoise (see 11).
- 3a. **Parameters measured:**
 - contour lines
 - highway networks and other transportation corridors
 - zone (urban, rural)
 - vegetation
 - buildings and various structures
- 3b. **Data acquisition methods:** Stereodigitization. Data from 1:40 000 aerial photographs.
- 3c. **Geographic coverage:** Province of Quebec up to the 51st parallel.
- 3d. **Geographic units of measure:** All the elements found on a topographical map referenced using MTM coordinates.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** Varies with territory type, from 5 to 15 years.
- 4a. **Database storage format:** Hardcopy, diskette, tape.
- 4b. **Database computer environment:** PC, UNIX, MICROSTATION.
5. **Restrictions and conditions:** Contract for use (copyright protection).
6. **Price information:** Digital files: \$500.00 per map. Hardcopy: \$6.00 per map.
7. **Corresponding printed sources:** Manual on digital map production standards.
8. **Languages:** French.
9. **User aids available:** Manual on digital map production standards.
10. **Keywords:** Geographic Information System; Rivers; Geography
11. **Additional information:** Available from the Photocartotheque québécoise, 1995 boul. Charest Ouest, Sainte-Foy, Qc, G1N 4H9, Phone: (418) 644-4935.



Ministère de l'Environnement du Québec

Air Quality System

SQA-0038-E

1. **Summary description:** Data on air pollutants.
- 2a. **Responsible organization:** Ministère de l'Environnement du Québec
- 2b. **Database contact:** Mr. Michel G. Ferland, Direction des réseaux atmosphériques, Ministère de l'Environnement du Québec, 2360 chemin Sainte-Foy, 2nd floor, Sainte-Foy, Qc G1V 4H2
Phone: (418) 644-3461 Facsimile: (418) 643-9591
- 2c. **Access mechanisms:** On request (Mr. Gilles Bélanger).
- 3a. **Parameters measured:**
 - sulphur dioxide
 - contamination and sulphur treatment indices
 - hydrogen sulphide (hourly and 2-hourly)
 - carbon monoxide

- total hydrocarbons
 - ozone
 - nitrogen dioxide and monoxide
 - methane
 - dust deposition and dust in suspension
 - asbestos contamination
 - lead, magnesium, iron, zinc, vanadium, manganese, nickel, chromium, copper, mercury, tin, cadmium, aluminum, silicon, titanium
 - sulphates, nitrates, phosphorus, fluorine
 - arsenic
 - sulphuric acid
 - calcium, sodium
- 3b. Data acquisition methods:** Measuring instruments and analysis of air content. Collection by the branch, and by the Montreal Urban Community.
- 3c. Geographic coverage:** Quebec.
- 3d. Geographic units of measure:** Sampling stations (latitude and longitude), municipalities, administrative regions.
- 3e. Period of record:** 1975 to present.
- 3f. Update frequency:** Ongoing.
- 4a. Database storage format:** Hardcopy, diskette, tape, cartridge.
- 4b. Database computer environment:** HP 1000 minicomputer. PC.
- 5. Restrictions and conditions:** Available after validation.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** Abstract published annually. MENVIQ (Ministère de l'Environnement du Québec), *Surveillance de la qualité de l'atmosphère*, monthly abstract. Reports published from 1975 to 1990.
- 8. Languages:** French.
- 9. User aids available:** Resource persons.
- 10. Keywords:** Air quality; Atmosphere; Environmental Science
- 11. Additional information:** None.

Aquatic Environment Quality Database

BQM-0003-E

- 1. Summary description:** The BQMA is a metabase of physico-chemical and biological data on the lakes and rivers of Quebec, collected as part of some forty projects.
- 2a. Responsible organization:** Ministère de l'Environnement du Québec
- 2b. Database contact:** Mr. Mario Bérubé, Direction de la qualité des cours d'eau, Ministère de l'Environnement du Québec, 930 chemin Sainte-Foy, Quebec, Qc G1S 2L4
Phone: (418) 646-0875 Facsimile: (418) 646-8483
- 2c. Access mechanisms:** Through the branch.
- 3a. Parameters measured:**
- physico-chemicals parameters (major ions, nutrients, physical descriptors, biological descriptors, metals, toxic substances)
 - biological parameters (fish inventories, benthos inventories, pathology)
- 3b. Data acquisition methods:** Collection of samples from lakes and rivers by technicians using a range of instruments. Raw water from some drinking water treatment stations.
- 3c. Geographic coverage:** The province of Quebec as a whole.
- 3d. Geographic units of measure:** Hydrographic region, hydrographic basin, UTM coordinates and topographical map number.
- 3e. Period of record:** 1967 to present. The recording period varies according to the project. The earliest data go back to 1967. Recording is ongoing, especially for two major projects (lake network, river network) that monitor water quality.

- 3f. Update frequency:** Ongoing for some projects.
- 4a. Database storage format:** Hardcopy, diskette, tape.
- 4b. Database computer environment:** Central computer (DGI, Ministère des Communications), DB2.
- 5. Restrictions and conditions:** Data must be validated before distribution.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** Since 1989, a series of technical reports and leaflets written in layman's language have been published on the water quality in selected basins. Copy on request, loan or authorization required depending on the report.
- 8. Languages:** French.
- 9. User aids available:** None.
- 10. Keywords:** Contaminants; Wetlands; Water quality; Rivers
- 11. Additional information:** Some other databases are soon to be integrated into the BQMA, including the Network for Monitoring Toxic Substances in the Aquatic Environment.

Beach Environment

EP-0054-E

- 1. Summary description:** Description of beaches. Analysis records.
- 2a. Responsible organization:** Ministère de l'Environnement du Québec
- 2b. Database contact:** Mr. Gaston Léveillé, Direction des orientations et services aux régions, Ministère de l'Environnement du Québec, 3900 rue de Marly, 6th floor, Sainte-Foy, Qc G1X 4E4
Phone: (418) 643-8497 Facsimile: (418) 528-1085
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- fecal coliform
 - fecal streptococcus
- 3b. Data acquisition methods:** Sampling by regional branches. The samples are then analyzed by accredited laboratories. The results are sent to the central computer for processing and the production of letters and reports.
- 3c. Geographic coverage:** Quebec.
- 3d. Geographic units of measure:** Beaches, municipalities, administrative regions.
- 3e. Period of record:** 1987 to present.
- 3f. Update frequency:** Daily in summer.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, CLIPPER, DBASE.
- 5. Restrictions and conditions:** Authorization required.
- 6. Price information:** Under the terms of the Access to Information Act.
- 7. Corresponding printed sources:** D.O.S.R. (Gaston Léveillé), *Historique du classement des plages par région administrative et municipalité*, 1987, 1988, 1989, 1990.
- 8. Languages:** French.
- 9. User aids available:** None.
- 10. Keywords:** Health; Recreation; Water quality; St. Lawrence River
- 11. Additional information:** A small part of the database deals specifically with the St. Lawrence River. The database covers only the public beaches in Quebec that meet the safety criteria of the Régie du Bâtiment. Beaches participate in the program on a voluntary basis.

Climatology System

DOT-0033-E

1. **Summary description:** Database includes daily and monthly data on temperature and precipitation and monthly data on weather normals. Other information includes snow data, weather phenomena and wind data and data on collecting stations.
- 2a. **Responsible organization:** Ministère de l'Environnement du Québec
- 2b. **Database contact:** Mr. Michel G. Ferland, Direction des réseaux atmosphériques, Ministère de l'Environnement du Québec, 2360 chemin Sainte-Foy, 2nd floor, Sainte-Foy, Qc G1V 4H2
Phone: (418) 644-3461 Facsimile: (418) 643-9591
- 2c. **Access mechanisms:** On request (Mr. Jacques Aubin).
- 3a. **Parameters measured:**
 - temperature (minimum, maximum)
 - precipitation (rain, snow, depth of snow on the ground)
 - estimated wind direction and wind speed
 - occurrence of various weather phenomena (mist, freezing rain, violent winds, storms, thunder, fog, hail, blowing snow, poor visibility)
 - degree days (freezing, growing, heating)
 - snow (water equivalent, density)
 - wind (direction, speed)
 - station (name, geographic location, elevation)
- 3b. **Data acquisition methods:** Meteorological instruments and visual observations. Data measured using a variety of meteorological instruments. Data from the Quebec weather network.
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** Weather stations (latitude and longitude), meteorological regions, administrative regions.
- 3e. **Period of record:** 1977 to present.
- 3f. **Update frequency:** Various, see 11.
- 4a. **Database storage format:** Tape, cartridge, diskette and hard copy.
- 4b. **Database computer environment:** IBM 370/MVS and Passerelle 3270, ULTIM, COBOL, FORTRAN.
5. **Restrictions and conditions:** Data available on payment of current fee.
6. **Price information:** Fee varies with nature of request and medium.
7. **Corresponding printed sources:** Jacques, Proulx and Lamothe, *Le climat du Québec méridional*, 1987. Climate normals, 1960-90. Annual and monthly climate summaries. Various climate statistics.
8. **Languages:** French.
9. **User aids available:** Resource persons.
10. **Keywords:** Atmosphere; Climatology; Precipitation; Weather
11. **Additional information:** Temperature and precipitation data are updated monthly with a 3-month delay. Snow and wind data are updated annually with a 6-month delay. Weather normals and phenomena data are updated every 5 years while station data is continually updated.

Computerized Systems for Monitoring Leases and Permits Issued for, and the Sale of, Public Waters

CSB-0008-E

1. **Summary description:** All systems contain information on applicants. For the Lease System, data includes site position and rental cost; for the Permit System, site position and permit cost; for the Sales System, lots sold, area and land evaluation.

- 2a. **Responsible organization:** Ministère de l'Environnement du Québec
- 2b. **Database contact:** Mr. Rosaire Lalancette, Service du contrôle des sites et du littoral, Direction du domaine hydrique, Ministère de l'Environnement du Québec, 930 chemin Sainte-Foy, Ground floor, Québec, Qc G1S 2L4
Phone: (418) 644-3499 Facsimile: (418) 643-1051
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - Lease System (cadastral reference, rental cost)
 - Permit System (cadastral reference and name, lot number)
 - Sales System (cadastral reference, area sold, evaluation)
- 3b. **Data acquisition methods:** Field sampling.
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** Sites, lots, cadastral reference.
- 3e. **Period of record:** Lease and Permit Systems, 1972 to present. Sales System, 1985 to present.
- 3f. **Update frequency:** Leases, monthly; Permits, biannually; Sales, as required.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** For the Leases and Permit Systems, DGI central computer, SAS. For the Sales System, PC, DBASE III+.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** French.
9. **User aids available:** None.
10. **Keywords:** Hydrology; Land use; Water
11. **Additional information:** None.

Data Centre on the Natural Heritage of Quebec

CDP-0050-E

1. **Summary description:** Data on rare, endangered and vulnerable species and on protected natural environments.
- 2a. **Responsible organization:** Ministère de l'Environnement du Québec
- 2b. **Database contact:** Mr. Francis Boudreau, Direction de la conservation et du patrimoine écologique, Ministère de l'Environnement du Québec, 2360 chemin Sainte-Foy, 1st floor, Sainte-Foy, Qc G1V 4H2
Phone: (418) 644-3358 Facsimile: (418) 646-6169
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - rare, threatened or vulnerable species (distribution, habitat, biological characteristics)
 - protected natural environments (map reference, general characteristics, ecological characteristics)
 - plant communities (to be developed)
- 3b. **Data acquisition methods:** Collection of information from various sources. Information from herbariums, museums, literature, inventories, field work.
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** Precise site map referencing (UTM coordinates and latitude and longitude), protected areas, RCMs, administrative regions.
- 3e. **Period of record:** Not applicable, but the time periods covered by the references vary.
- 3f. **Update frequency:** Ongoing.
- 4a. **Database storage format:** Hardcopy.

- 4b. **Database computer environment:** PC, BCD (Biological and Conservation data), ADVANCED-REVELATION.
5. **Restrictions and conditions:** No restrictions, except for exact map referencing of species (confidential).
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** French, English (American network).
9. **User aids available:** None.
10. **Keywords:** Endangered species; Wildlife; Habitats; Protected areas
11. **Additional information:** The centre operates the BCD developed by The Nature Conservancy U.S..

Data on Rainwater Quality (Acid Rain System)

DQE-0030-E

1. **Summary description:** Physico-chemical data related to weekly precipitation.
- 2a. **Responsible organization:** Ministère de l'Environnement du Québec
- 2b. **Database contact:** Mr. Michel G. Ferland, Direction des réseaux atmosphériques, Ministère de l'Environnement du Québec, 2360 chemin Sainte-Foy, 2nd floor, Sainte-Foy, Qc G1V 4H2
Phone: (418) 644-3461 *Facsimile:* (418) 643-9591
- 2c. **Access mechanisms:** On request (Mr. Jacques Aubin).
- 3a. **Parameters measured:**
 - precipitation depth
 - nature of precipitation
 - pH (acidity)
 - conductivity
 - SO_4^{2-} (sulfate) concentration
 - NO_x (nitrate)
 - NH_4 (ammoniacal nitrogen)
 - Cl^- (chlorine)
 - H (hydrogen)
 - Ca (calcium)
 - Mg (magnesium)
 - Na (sodium)
 - K (potassium)
- 3b. **Data acquisition methods:** Meteorological instruments and chemical analysis. Precipitation collection network uses wet collectors for collection and measurement. Analysis by ion exchange and atomic absorption chromatography.
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** Weather stations (latitude and longitude), meteorological regions, watersheds, administrative regions.
- 3e. **Period of record:** 1981 to present.
- 3f. **Update frequency:** Annually, 2-year delay.
- 4a. **Database storage format:** Hardcopy, diskette, tape, cartridge.
- 4b. **Database computer environment:** IBM 370/MVS and Passerelle 3270, ULTIM, COBOL, FORTRAN.
5. **Restrictions and conditions:** Data available on payment of current fee.
6. **Price information:** Fee varies with nature of request and medium.
7. **Corresponding printed sources:** MENVIQ (Ministère de l'Environnement du Québec), Summaries of data on precipitation water quality, reports, REPQ, on-site consultation, copy on request.
8. **Languages:** French.
9. **User aids available:** Resource persons.
10. **Keywords:** Atmosphere; Climatology; Acid precipitation

11. **Additional information:** This database is part of the Acid Rain System.

Data on the Navigability of Lakes

SCA-0007-E

1. **Summary description:** Information on the navigability of lakes obtained from the general file on lakes.
- 2a. **Responsible organization:** Ministère de l'Environnement du Québec
- 2b. **Database contact:** Mr. Rosaire Lalancette, Service du contrôle des rives et du littoral, Direction du domaine hydrique, Ministère de l'Environnement du Québec, 930 Chemin Sainte-Foy, Ground floor, Québec, Qc G1S 2L4
Phone: (418) 644-3499 *Facsimile:* (418) 643-1051
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - navigability
 - file number
 - lake (name, number, map reference)
 - watercourse
- 3b. **Data acquisition methods:** Criteria-based studies and visits to lakes.
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** Lakes.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** DGI central computer, SAS.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** French.
9. **User aids available:** None.
10. **Keywords:** Water; Lakes; Hydrology
11. **Additional information:** None.

Database on Industrial Waste Production by 50 Companies Covered by EISL's St. Lawrence Action Plan

BDR-0043-E

1. **Summary description:** Profiles of 50 St. Lawrence Action Plan (SLAP) industries, the contaminants discharged and the environment affected.
- 2a. **Responsible organization:** Ministère de l'Environnement du Québec
- 2b. **Database contact:** Mr. Gilles Legault, Équipe d'intervention Saint-Laurent, Direction des programmes d'assainissement, Ministère de l'Environnement du Québec, 5199 rue Sherbrooke E, Suite 2881, Montréal, Qc H1T 3X3
Phone: (514) 873-4616 *Facsimile:* (514) 873-4133
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - 354 parameters measured in various categories (physico-chemical, biology, volatile organic compounds, non volatile organic compounds)
- 3b. **Data acquisition methods:** Information from sampling surveys (external discharge) conducted by EISL teams over specified time periods.
- 3c. **Geographic coverage:** St. Lawrence and Saguenay rivers.

- 3d. Geographic units of measure:** Industry, municipality, industry sector, administrative region, MENVIQ (Ministère de l'Environnement du Québec) region.
- 3e. Period of record:** 1988 to present.
- 3f. Update frequency:** Ongoing.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, FOXPRO.
- 5. Restrictions and conditions:** None.
- 6. Price information:** Free.
- 7. Corresponding printed sources:** Great Lakes Laboratories industry files written by GLL consultants, 50 15-page files, 1989, on-site consultation. Three-day project characterisation (30 plants and 1 volume for each plant), reports written by 10 consultants, 1989-1991. Complete databases (profiles and lists of other files. DBJ, updated databases) written by EISL, 1990-1991, 1,500 pages.
- 8. Languages:** French.
- 9. User aids available:** User's guide.
- 10. Keywords:** Disposal; St. Lawrence River; Industry
- 11. Additional information:**
1. There will be ongoing monitoring of the companies already selected, other companies are to be added in the future.
 2. The same data (monthly) have also been entered into Lotus (PC) for the years 1988 to 1990. For additional information, please contact Pierre Terreault, Phone: (514) 873-6331.

Database on MENVIQ Files that Relate to Contaminated Land Rehabilitation

GER-0040-E

- 1. Summary description:** Inventory of general, administrative and technical data on contaminated land in Quebec for which MENVIQ (Ministère de l'Environnement du Québec) operates a file in context of the contaminated land rehabilitation policy.
- 2a. Responsible organization:** Ministère de l'Environnement du Québec
- 2b. Database contact:** Ms. Jocelyne Hébert, Dir. des program. de gestion des déchets et lieux contaminés, Ministère de l'Environnement du Québec, 3900 rue de Marly, 5th floor, Sainte-Foy, Qc G1X 4E4
Phone: (418) 644-2914 Facsimile: (418) 646-4920
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- site identification and map reference (municipality and region)
 - annual progress of file
 - person responsible
 - priority contaminant type
 - area of contaminated site
 - volume of contaminated soil
 - date file opened
 - type of land owner
 - current land use
 - future zoning of land
 - evaluation of restoration cost
 - date of file update
- 3b. Data acquisition methods:** Compilation of data drawn from files. Files processed by the responsible persons in each regional branch office. The files are transferred to the central computer for entry into the system.
- 3c. Geographic coverage:** Quebec.
- 3d. Geographic units of measure:** Municipality, administrative region.
- 3e. Period of record:** 1988 to present.
- 3f. Update frequency:** Annually.

- 4a. Database storage format:** Hardcopy.
- 4b. Database computer environment:** PC, DBASE IV.
- 5. Restrictions and conditions:** Data accessible under the Access to Information Act.
- 6. Price information:** As specified in the Access to Information Act.
- 7. Corresponding printed sources:** *Direction des programmes de gestion des déchets et des lieux contaminés, 1991.* Data bank on MENVIQ files that relate to contaminated land rehabilitation (GERSOL), list of files by administrative region.
- 8. Languages:** French.
- 9. User aids available:** None.
- 10. Keywords:** Contaminants; Municipalities; Soils
- 11. Additional information:** None.

Drinking Water

EP-0002-E

- 1. Summary description:** Data on the bacteriological and physico-chemical quality of drinking water in Quebec. The water supply networks are municipal, private, company, institutional and other.
- 2a. Responsible organization:** Ministère de l'Environnement du Québec
- 2b. Database contact:** Mr. Arthur Terreault, Direction des orientations et services aux régions, Ministère de l'Environnement du Québec, 3900 rue de Marly, 6th floor, Sainte-Foy, Qc G1X 4E4
Phone: (418) 643-8496 Facsimile: (418) 528-1085
- 2c. Access mechanisms:** Through the regional offices.
- 3a. Parameters measured:**
- coliform, fecal coliform, fecal streptococcus
 - heterotrophic bacteria
 - silver, cadmium, mercury, lead, chromium, barium, selenium
 - arsenic, cyanide
 - sulfates, nitrates
 - turbidity
 - organic substances
 - uranium, radioactivity
- 3b. Data acquisition methods:** Sampling done regionally, usually by the persons responsible for the water supply networks. Analysis results captured in the regions. Some regional branches (urban ecosystem branch) capture their own data.
- 3c. Geographic coverage:** Quebec.
- 3d. Geographic units of measure:** 1,100 municipal, 450 private, 314 institutional and 173 company networks.
- 3e. Period of record:** 1974 to present.
- 3f. Update frequency:** Ongoing.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** Central computer.
- 5. Restrictions and conditions:** All data may be accessed (under the terms of the Access to Information Act).
- 6. Price information:** No charge for a limited quantity.
- 7. Corresponding printed sources:** Low circulation internal publication.
- 8. Languages:** French.
- 9. User aids available:** Operating manual and user's guide.
- 10. Keywords:** Contaminants; Municipalities; Water quality
- 11. Additional information:** None.

Ecological Framework for Quebec

CER-0079-E

1. **Summary description:** Database covering the ecological units of Quebec, defined on hard copy or digital maps, drawn to various scales.
- 2a. **Responsible organization:** Ministère de l'Environnement du Québec
- 2b. **Database contact:** Mr. Jean-Pierre Ducruc, Direction de la Conservation et du Patrimoine écologique, Ministère de l'Environnement du Québec, 2360 chemin Sainte-Foy, Sainte-Foy, Qc G1V 4H2
Phone: (418) 644-3383 Facsimile: (418) 646-6169
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - geology
 - geomorphology
 - bioclimatology
 - topography
 - soil
 - hydric soil regime
 - vegetation
- 3b. **Data acquisition methods:** Field work, analysis and interpretation of photographs.
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** Ecological units referenced using UTM or MTM coordinates.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** Ongoing.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE IV, SPANS GIS.
5. **Restrictions and conditions:** None for completed projects.
6. **Price information:** No charge at present.
7. **Corresponding printed sources:** None.
8. **Languages:** French.
9. **User aids available:** Sheet memoirs.
10. **Keywords:** Ecology; Geographic Information System; Landscape
11. **Additional information:** Some maps included in the database are digital (on SPANS GIS).

ENVIRODOQ

ENV-0055-E

1. **Summary description:** Computerized reference index covering a large number of studies on Quebec (monographs, scientific and technical documents, inventories and reports of agencies that work in the field).
- 2a. **Responsible organization:** Ministère de l'Environnement du Québec
- 2b. **Database contact:** Ms. Véronique Paré, Centre de documentation et de renseignements, Ministère de l'Environnement du Québec, 3900 rue de Marly, 3rd floor, Sainte-Foy, Qc G1X 4E4
Phone: (418) 644-3286 Facsimile: (418) 528-0406
- 2c. **Access mechanisms:** Through the MENVIQ (Ministère de l'Environnement du Québec) library.
- 3a. **Parameters measured:**
 - title
 - subject
 - author
 - document type
 - year of publication

- geographic descriptors
- watershed
- regional county municipality
- administrative region
- National Topographic System
- census division

- 3b. **Data acquisition methods:** Compilation of bibliographic information. The information is drawn from a broad range of MENVIQ documents.
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** Site or region concerned, watershed, regional county municipality, administrative region, census division, National Topographic System.
- 3e. **Period of record:** Not applicable, although it does include the bibliographies for all MENVIQ publications as well as publications of the ministère des richesses naturelles (former department).
- 3f. **Update frequency:** Ongoing.
- 4a. **Database storage format:** Hardcopy, compact disk (see 11).
- 4b. **Database computer environment:** HP3000 minicomputer, SPEEDWARE, BESTSELLER.
5. **Restrictions and conditions:** None. Consultation on site and at the Montreal branch.
6. **Price information:** No charge.
7. **Corresponding printed sources:** MENVIQ, *Répertoire des publications scientifiques et techniques du ministère de l'Environnement*, 1992.
8. **Languages:** French.
9. **User aids available:** Guide being developed. Resource persons. There is also a thesaurus.
10. **Keywords:** Institutions; Environmental Science; Research
11. **Additional information:**
 1. The documentation centre also makes available to external customers, for on-site consultation, a series of reports entitled *Bibliographies en environnement*. The centre also offers written reports, on computer (American and international databases) bibliography searches (BIBE collection). On-site consultation, inter-library loans.
 2. Available on compact disk, including a number of other bibliography databases such as PUBLIC (Quebec government publications). Disk (La Bibliothèque québécoise) sold for \$895.00 at DOCUMENSA in Montreal (Phone: (514) 524-7722).

General Collection (Climatology System)

CG-0056-E

1. **Summary description:** Computerized bibliography related to all the publications inventoried at the MENVIQ (Ministère de l'Environnement du Québec) documentation centre (monographs, scientific and technical documents, inventories and reports).
- 2a. **Responsible organization:** Ministère de l'Environnement du Québec
- 2b. **Database contact:** Ms. Carole Robitaille, Centre de documentation et de renseignements, Ministère de l'Environnement du Québec, 3900 rue de Marly, 3rd floor, Sainte-Foy, Qc G1X 4E4
Phone: (418) 644-3286 Facsimile: (418) 528-0406
- 2c. **Access mechanisms:** Through the MENVIQ library.
- 3a. **Parameters measured:**
 - title
 - topic
 - author
 - document type
 - year of publication
 - geographic descriptors

- 3b. **Data acquisition methods:** Compilation of bibliographic information. The information is drawn from various types of MENVIQ documents.
- 3c. **Geographic coverage:** International.
- 3d. **Geographic units of measure:** Site or region concerned.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** Ongoing.
- 4a. **Database storage format:** Hard copy (bibliography lists).
- 4b. **Database computer environment:** HP3000 minicomputer, SPEEDWARE, BESTSELLER.
5. **Restrictions and conditions:** None. Consultation on site and at the Montreal branch.
6. **Price information:** No charge under the terms of the Access to Information Act.
7. **Corresponding printed sources:** None.
8. **Languages:** French.
9. **User aids available:** Guide being developed. Assistance from resource persons. There is also a thesaurus.
10. **Keywords:** Institutions; Environmental Science; Research
11. **Additional information:** The documentation centre also makes available to external customers, for on-site consultation, a series of reports entitled *Bibliographies en environnement*. The centre offers written reports on computer (American and international databases) bibliography searches (BIBE collection). On-site consultation, inter-library loans.

GERLED Inventory Database

GER-0041-E

1. **Summary description:** Inventory of general, administrative and technical information on hazardous waste elimination sites listed in the GERLED inventory.
- 2a. **Responsible organization:** Ministère de l'Environnement du Québec
- 2b. **Database contact:** Ms. Jocelyne Hébert, Dir. des program. de gestion des déchets et lieux contaminés, Ministère de l'Environnement du Québec, 3900 rue de Marly, 5th floor, Sainte-Foy, Qc G1X 4E4
Phone: (418) 644-2914 Facsimile: (418) 646-4920
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - site identification and map reference (municipality and administrative region)
 - annual progress of file
 - number and category of site
 - type of (site, waste, priority contaminants)
 - name and type of site owner
 - dollars invested (all levels of government, private)
 - planned future zoning
 - date of file update
- 3b. **Data acquisition methods:** Compilation of data drawn from files. Files processed by the responsible person in each regional branch office. Data sheets for file processing are forwarded to head office.
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** Municipality, administrative region.
- 3e. **Period of record:** 1977 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** PC, DBASE IV.
5. **Restrictions and conditions:** Data accessible under the Access to Information Act.

6. **Price information:** As specified in the Access to Information Act.
7. **Corresponding printed sources:** Undetermined at present.
8. **Languages:** French.
9. **User aids available:** None.
10. **Keywords:** Contaminants; Disposal; Municipalities
11. **Additional information:** This database is currently in the layout phase.

Hydric Database

BDH-0022-E

1. **Summary description:** Daily data on hydrometric network flows and levels and profile of measurement sites.
- 2a. **Responsible organization:** Ministère de l'Environnement du Québec
- 2b. **Database contact:** Mr. Raymond Lavoie, Direction du réseau hydrique, Ministère de l'Environnement du Québec, 2360 chemin Sainte-Foy, 2nd floor, Sainte-Foy, Qc G1V 4H2
Phone: (418) 644-8532 Facsimile: (418) 646-2367
- 2c. **Access mechanisms:** Through DGI (Ministère des communications).
- 3a. **Parameters measured:**
 - water flow and level
 - measurement site coordinates
 - site elevation
 - storage in basins
 - watersheds
- 3b. **Data acquisition methods:** Data measured using recording instruments.
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** Stations map referenced using UTM coordinates, hydrographic basins.
- 3e. **Period of record:** 1880 to present.
- 3f. **Update frequency:** Corrections only when necessary.
- 4a. **Database storage format:** Hardcopy, diskette, tape.
- 4b. **Database computer environment:** Central computer (DGI, Ministère des communications).
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** French.
9. **User aids available:** On-site consultation, technical papers.
10. **Keywords:** Water; Watersheds; Hydrology
11. **Additional information:** None.

Hydrogeological Database

BDH-0011-E

1. **Summary description:** Description of drilled artesian wells in Quebec.
- 2a. **Responsible organization:** Ministère de l'Environnement du Québec
- 2b. **Database contact:** Mr. Michel Ouellet, Division des eaux souterraines, Direction des écosystèmes urbains, Ministère de l'Environnement du Québec, 930 chemin Sainte-Foy, Québec, Qc G1S 2L4
Phone: (418) 646-0892 Facsimile: (418) 644-9947
- 2c. **Access mechanisms:** Through MENVIQ (Ministère de l'Environnement du Québec) Direction des ressources informationnelles.
- 3a. **Parameters measured:**
 - nature and thickness of materials
 - water level

- pumped flow
- details of well construction
- 3b. **Data acquisition methods:** Drilling reports forwarded by well-digging firms.
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** Drilling site (UTM coordinates), municipality, county, hydrographic basin, administrative region.
- 3e. **Period of record:** 1922 to present. Data capture began in 1976, some data go back to early 1922.
- 3f. **Update frequency:** None since 1986, update planned (see 11).
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** Central computer (DGI, Ministère des Communications), PC, DBASE, PARADOX.
- 5. **Restrictions and conditions:** None.
- 6. **Price information:** No charge.
- 7. **Corresponding printed sources:** *Annuaire des puits et forages*, 1984, 1209 pages; copy on request. Summarized list output from hydrogeological data bank for 1986, 2935 pages; copy on request.
- 8. **Languages:** French.
- 9. **User aids available:** None.
- 10. **Keywords:** Hydrology; Water; Extraction
- 11. **Additional information:** This database has not been operational on the central computer since 1986, but the data have been published in annuals. The data have also been transferred to a PC platform. This database and the Piezométrie Database are to be consolidated in 1994-95.

Industrial Depollution Program Incident Monitoring Systems

SSI-0042-E

- 1. **Summary description:** Inventory of Quebec industries. Industrial incident program.
- 2a. **Responsible organization:** Ministère de l'Environnement du Québec
- 2b. **Database contact:** Mr. Pierre Bergevin, Direction des programmes d'assainissement, Ministère de l'Environnement du Québec, 5199 rue Sherbrooke E., Bureau 4800, Montréal, Qc H1T 3X3
Phone: (514) 873-3056 *Facsimile:* (514) 873-8257
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - identification of industries
 - identification of responsible persons
 - technical data on water
 - programming steps
- 3b. **Data acquisition methods:** Inventory searches and telephone surveys. Information obtained from Scoot and Centre de Recherche Industrielle du Québec (CRIQ) inventories, provided by municipalities and telephone calls.
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** Industries referenced by address, municipality, administrative region, MENVIQ (Ministère de l'Environnement du Québec) region
- 3e. **Period of record:** 1980 to 1991. This database has not been updated since April 1991 (see 11).
- 3f. **Update frequency:** Biannually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, CLIPPER, DBASE III.
- 5. **Restrictions and conditions:** For the sole use of MENVIQ managers.

- 6. **Price information:** No charge.
- 7. **Corresponding printed sources:** None.
- 8. **Languages:** French.
- 9. **User aids available:** None.
- 10. **Keywords:** Industry; Disposal; Regulation
- 11. **Additional information:** Although this database has not been updated since April 1991, the data stored in the system can still be accessed. Similar, more recent data are recorded in the Register database.

Industrial Waste Reduction Program

PRR-0045-E

- 1. **Summary description:** Identification of site of operations or establishment, industry and owner. Companies for which intervention has been assigned short term (200 industries) and medium term (600 industries) priority.
- 2a. **Responsible organization:** Ministère de l'Environnement du Québec
- 2b. **Database contact:** Mr. Guy Demers, Direction de l'orientation et de la réglementation, Ministère de l'Environnement du Québec, 3900 rue de Marly, 5th floor, Sainte-Foy, Qc G1X 4E4
Phone: (418) 643-4336 *Facsimile:* (418) 528-1492
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - Information on site of operations or firm (identification, map referencing, industry identification, owner identification)
- 3b. **Data acquisition methods:** Telephone interviews and meetings. Collection by regional branch offices. The data are then sent to the central computer for entry into the system.
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** Site or establishment, administrative region.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** Update will begin on adoption of government order.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** PC, DBASE III+.
- 5. **Restrictions and conditions:** Personal information is confidential.
- 6. **Price information:** No charge.
- 7. **Corresponding printed sources:** None.
- 8. **Languages:** French.
- 9. **User aids available:** None.
- 10. **Keywords:** Waste; Industry; Pollution
- 11. **Additional information:** None.

Inventory of Air Emissions

INV-0044-E

- 1. **Summary description:** Information on emissions, emission sources, processes used and use of combustible materials.
- 2a. **Responsible organization:** Ministère de l'Environnement du Québec
- 2b. **Database contact:** Mr. Chamrith Chhem, Direction de l'expertise scientifique, Ministère de l'Environnement du Québec, 2360 rue Sainte-Foy, 1st floor, Sainte-Foy, Qc G1V 4H2
Phone: (418) 644-3465 *Facsimile:* (418) 646-0001
- 2c. **Access mechanisms:** Through the branch, and by scientific assessment.
- 3a. **Parameters measured:**
 - air emissions of various contaminants
 - use of combustible materials

- emission factors
- characteristics of emissions and emission sources

- 3b. Data acquisition methods:** Questionnaires specific to each industry. Forms sent to the industries listed, returned to regional branch offices and forwarded to the branch for entry into the system.
- 3c. Geographic coverage:** Quebec.
- 3d. Geographic units of measure:** Sites map referenced (longitude and latitude), municipalities, administrative regions, MENVIQ (Ministère de l'Environnement du Québec) regions.
- 3e. Period of record:** 1985 to present.
- 3f. Update frequency:** Annually.
- 4a. Database storage format:** Hardcopy.
- 4b. Database computer environment:** PC, BELTRON.
- 5. Restrictions and conditions:** Data source must be given.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** Environment Canada, *Trends in Common Air Contaminants in Canada (1970-1980)*, 1990, 154 pages. MENVIQ, *État de l'environnement au Québec*, 1993, Guérin, 550 pages.
- 8. Languages:** French.
- 9. User aids available:** User's guide for internal use only.
- 10. Keywords:** Atmosphere; Emissions; Industry
- 11. Additional information:** None.

Issue of Authorizations for Pesticides System

SEA-0014-E

- 1. Summary description:** System that issues the authorizations required under the Pesticides Act to persons involved with pesticides (vendors/users).
- 2a. Responsible organization:** Ministère de l'Environnement du Québec
- 2b. Database contact:** Ms. Lucie Bouchard, Direction du milieu agricole et contrôle des pesticides, Ministère de l'Environnement du Québec, 2360 chemin Sainte-Foy, C.P. 26, Sainte-Foy, Qc G1V 4H2
Phone: (418) 644-4864 Facsimile: (418) 528-1035
- 2c. Access mechanisms:** Through the branch.
- 3a. Parameters measured:**
- address of applicant
 - permit (firm) and certificate (individual) for sale or use of selected pesticides defined by regulation
 - activity sector (wholesale, details of landscape maintenance, agriculture, forestry, extermination)
- 3b. Data acquisition methods:** Reading applications for authorization and verification. Verification of applications, field monitoring and data capture in the region by regional branch offices. The data are then sent to the central branch for compilation, verification and production of statistical reports.
- 3c. Geographic coverage:** Quebec.
- 3d. Geographic units of measure:** Municipalities, watersheds, electoral districts, regional county municipalities, administrative regions, MENVIQ (Ministère de l'Environnement du Québec) regions.
- 3e. Period of record:** 1988 to present.
- 3f. Update frequency:** Ongoing (regional branch offices), monthly (central branch)
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, DBASE, CLIPPER.
- 5. Restrictions and conditions:** Validation prior to distribution under the terms of Access to Information Act.
- 6. Price information:** No charge under the terms of the Access to Information Act.

- 7. Corresponding printed sources:** Various reports and lists produced for statistical and administrative purposes or field control. Mainly for internal use, limited distribution.
- 8. Languages:** French.
- 9. User aids available:** None.
- 10. Keywords:** Contaminants; St. Lawrence River; Pesticides
- 11. Additional information:** None.

Lakes

L-0019-E

- 1. Summary description:** Map referencing information, lake morphometry and bathymetry.
- 2a. Responsible organization:** Ministère de l'Environnement du Québec
- 2b. Database contact:** Mr. Raymond Lavoie, Direction du réseau hydrique, Ministère de l'Environnement du Québec, 2360 rue Sainte-Foy, 2nd floor, Sainte-Foy, Qc G1V 4H2
Phone: (418) 644-8532 Facsimile: (418) 646-2367
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- map referencing, morphometry and bathymetry of lakes
- 3b. Data acquisition methods:** Reading and measurement on topographical maps (1:50 000). Data sampled digitally.
- 3c. Geographic coverage:** Quebec (south of 51st parallel).
- 3d. Geographic units of measure:** Lakes referenced by UTM coordinates, hydrographic basins.
- 3e. Period of record:** Not applicable.
- 3f. Update frequency:** Corrections only as required.
- 4a. Database storage format:** Hardcopy, diskette, tape.
- 4b. Database computer environment:** DGI (Ministère des Communications) central computer.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** French.
- 9. User aids available:** None.
- 10. Keywords:** Lakes; Water; Hydrography
- 11. Additional information:** None.

List of Municipalities that have Waste Recycling Programmes

LMC-0048-E

- 1. Summary description:** Type of recyclable collection by municipality, by year since 1980, and by QPDB administrative region.
- 2a. Responsible organization:** Ministère de l'Environnement du Québec
- 2b. Database contact:** Mr. Normand Dupont, Direction récupération et recyclage, Ministère de l'Environnement du Québec, 2360 rue Sainte-Foy, 1st floor, Sainte-Foy, Qc G1V 4H2
Phone: (418) 644-3354 Facsimile: (418) 643-3754
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- year of introduction (since 1980)
 - QPDB area (prior to 1989)
 - municipality
 - number of inhabitants
 - estimated number of dwellings
 - method of recyclable collection (individual drop-off, door to door, additional, substitute, combined)

- 3b. **Data acquisition methods:** Personal or telephone interview.
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** Municipalities, QPDB administrative regions.
- 3e. **Period of record:** 1980 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE IV.
- 5. **Restrictions and conditions:** None.
- 6. **Price information:** No charge.
- 7. **Corresponding printed sources:** MENVIQ (Ministère de l'Environnement du Québec), *List of Municipalities that Carry Out Separate Collection*, 1993.
- 8. **Languages:** French.
- 9. **User aids available:** See data centre contact.
- 10. **Keywords:** Municipalities; Recycling; Environmental Science
- 11. **Additional information:** None.

List of Waste Recyclers and Collectors

LRR-0047-E

- 1. **Summary description:** Names and addresses of recyclers and collectors.
- 2a. **Responsible organization:** Ministère de l'Environnement du Québec
- 2b. **Database contact:** Mr. Yvan Deshaies, Direction récupération et recyclage, Ministère de l'Environnement du Québec, 2360 rue Sainte Foy, 1st floor, Sainte-Foy, Qc G1V 4H2
Phone: (418) 528-1456 Facsimile: (418) 634-3754
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - name, address, phone number
 - status (private firm, non-profit firm, achievement centre)
 - material recycled or recovered (paper, cardboard, glass, plastic, metal, dry goods, automobiles, textiles, tires)
- 3b. **Data acquisition methods:** Visits, personal contact and newspapers. Data obtained from industries or municipalities.
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** Industries or municipalities by region.
- 3e. **Period of record:** Current list.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE IV.
- 5. **Restrictions and conditions:** Some data are confidential (industrial secrecy).
- 6. **Price information:** No charge.
- 7. **Corresponding printed sources:** *List of Collectors and Recyclers*, published in 1991, 1992 and 1993. Copies available on request.
- 8. **Languages:** French.
- 9. **User aids available:** See data centre contact.
- 10. **Keywords:** Industry; Recycling; Pollution
- 11. **Additional information:** None.

Monitoring of Stations Built in the Context of the Water Treatment Program

PAE-0001-E

- 1. **Summary description:** List of stations built in the context of the water treatment program (PAEQ), including criteria for de-

sign, data compilation and monitoring and the environmental requirements.

- 2a. **Responsible organization:** Ministère de l'Environnement du Québec
- 2b. **Database contact:** Mr. Michel Laurin, Direction de l'assainissement urbain, Ministère de l'Environnement du Québec, 930 chemin Sainte-Foy, 3rd floor, Québec, Qc G1S 2L4
Phone: (418) 646-1811 Facsimile: (418) 644-8957
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - characteristics of station design (flow, load, population served)
 - operation start date
 - map reference (region, basin)
 - data compilation and monitoring of selected stations (influent, effluent)
- 3b. **Data acquisition methods:** Project studies. Data drawn from a study of projects, compliance studies, and the MENVIQ (Ministère de l'Environnement du Québec) station monitoring program.
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** Geographic codes for municipalities, watersheds, MENVIQ regions.
- 3e. **Period of record:** 1990 to present.
- 3f. **Update frequency:** Ongoing.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE.
- 5. **Restrictions and conditions:** None.
- 6. **Price information:** No charge.
- 7. **Corresponding printed sources:** *Rapport d'évaluation des ouvrages municipaux d'assainissement des eaux du PAEQ*, annual report.
- 8. **Languages:** French.
- 9. **User aids available:** None.
- 10. **Keywords:** Effluents; Engineering; Municipalities
- 11. **Additional information:** None.

Network for Monitoring Toxic Substances in the Aquatic Environment

RT-0004-E

- 1. **Summary description:** Network for monitoring toxic substances in the aquatic environment of the St. Lawrence River and its principal tributaries. Mercury and PCBs in fish and other toxic substances in sediments.
- 2a. **Responsible organization:** Ministère de l'Environnement du Québec
- 2b. **Database contact:** Mr. Denis Laliberté, Direction de la qualité des cours d'eau, Ministère de l'Environnement du Québec, 930 chemin Sainte-Foy, Québec, Qc G1S 2L4
Phone: (418) 644-3298 Facsimile: (418) 646-8483
- 2c. **Access mechanisms:** Through the resource person.
- 3a. **Parameters measured:**
 - in fish meat (mercury, PCB, dioxins, furans, organochlorine pesticides)
 - in sediments (heavy metals, PAH)
- 3b. **Data acquisition methods:** Sampling and analysis of fish and sediments to verify the concentration of toxic substances.
- 3c. **Geographic coverage:** St. Lawrence River and its principal tributaries.
- 3d. **Geographic units of measure:** Stations (which may vary according to year) are located all along the St. Lawrence River and its main tributaries, including a number of sport fishing lakes and rivers.

- 3e. **Period of record:** 1978 to present. The time period varies with the location.
- 3f. **Update frequency:** Ongoing for a variable number of stations.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** PC, FRAME MAKER III.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Between 1982 et 1992, 21 reports (QE series) of varied length were produced by D. Laliberté, M. Goulet, G. Croteau and M. Paul. Copies on request.
8. **Languages:** French.
9. **User aids available:** None.
10. **Keywords:** Contaminants; Water quality; Toxic chemicals
11. **Additional information:** This database is soon to be consolidated into the Aquatic Environment Quality Database (BQMA) on the central computer.

Piezometric Database

LCA-0012-E

1. **Summary description:** Data on fluctuations in groundwater affected by pumping or unaffected by pumping (natural groundwater flows).
- 2a. **Responsible organization:** Ministère de l'Environnement du Québec
- 2b. **Database contact:** Mr. Michel Ouellet, Division des eaux souterraines, Direction des écosystèmes urbains, Ministère de l'Environnement du Québec, 930 rue Sainte-Foy, Québec, Qc G1S 2L4
Phone: (418) 646-0892 *Facsimile:* (418) 644-9947
- 2c. **Access mechanisms:** Through MENVIQ (Ministère de l'Environnement du Québec), Direction des ressources informationnelles.
- 3a. **Parameters measured:**
 - groundwater level
 - volume of water pumped
- 3b. **Data acquisition methods:** Collection of information from various sources. Information transmitted by some municipalities and MENVIQ regional branches. Data recording devices.
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** Piezometric recording site, municipality, county, administrative region.
- 3e. **Period of record:** 1967 to present. Data capture from 1983, some data go back to late 1967.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** Central computer (DGI, Ministère des Communications).
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** List of fluctuations in groundwater by piezometric station.
8. **Languages:** French.
9. **User aids available:** None.
10. **Keywords:** Hydrology; Water; Extraction
11. **Additional information:** This database and the Hydrogeological Database are to be consolidated in 1994-95 in another software environment.

Private Dams

BP-0053-E

1. **Summary description:** Compilation of administrative data on over 9,000 private dams distributed throughout Quebec.
- 2a. **Responsible organization:** Ministère de l'Environnement du Québec
- 2b. **Database contact:** Ms. Michelle Vézina, Sous-ministériat aux opérations régionales, Ministère de l'Environnement du Québec, 3900 rue de Marly, Sainte-Foy, Qc G1X 4E4
Phone: (418) 644-5659 *Facsimile:* (418) 528-1085
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - administrative data (name of owner, dam number, file number, map reference)
 - technical data (length, width, discharge unit type, set of data that determine the probability of rupture and damage)
- 3b. **Data acquisition methods:** Site inspection.
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** Dams referenced by longitude and latitude.
- 3e. **Period of record:** 1975 to 1985.
- 3f. **Update frequency:** None.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** DGI central computer.
5. **Restrictions and conditions:** Consultation by the person responsible.
6. **Price information:** No charge.
7. **Corresponding printed sources:** More than thirty different lists may be produced from the database, copies available on request.
8. **Languages:** French.
9. **User aids available:** None.
10. **Keywords:** Watersheds; Hydrology; Rivers;
11. **Additional information:** As this database has not been updated since 1985, some data may be inaccurate.

Pulp and Paper Data Management System

SLA-0039-E

1. **Summary description:** Data on controlled discharges from pulp and paper mills, calculation of allocations and company profiles (see 11).
- 2a. **Responsible organization:** Ministère de l'Environnement du Québec
- 2b. **Database contact:** Mr. Yves Genest, Service suivi et statistiques, Ministère de l'Environnement du Québec, 2360 rue Sainte-Foy, 3rd floor, P.O. Box 73, Sainte-Foy, Qc G1V 4H2
Phone: (418) 644-3598 *Facsimile:* (418) 644-2003
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - suspended matter
 - BOD5
 - pumped flow
 - colour
 - pH (acidity)
- 3b. **Data acquisition methods:** Sampling and analysis. Sampling and analysis carried out by the companies. Data provided to regional branch offices, then transmitted to central branch for entry into the system. Although central branch inspectors also take samples at times, these data are not entered into this database.
- 3c. **Geographic coverage:** Quebec.

- 3d. **Geographic units of measure:** Industrial sites (approximately 60), municipalities, regional branches.
- 3e. **Period of record:** 1985 to 1995.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** DGI central computer. PC, EXCEL.
5. **Restrictions and conditions:** Some data are confidential, see data centre contact..
6. **Price information:** No charge.
7. **Corresponding printed sources:** Monthly publication entitled *Rapport de conformité (mensuel) par l'industrie (pâtes et papiers)*; list for on-site consultation (authorization required). Three page monthly and annual abstracts.
8. **Languages:** French.
9. **User aids available:** None.
10. **Keywords:** Industry; Waste; Regulation
11. **Additional information:** This database is concerned solely with the old regulation, which will remain in force until September 1995. The data related to the new regulation (in force since October 1992), in the pulp and paper industry, may be consolidated with the SSPI (decision pending).

7. **Corresponding printed sources:** Gariépy, Clavet et Leduc, *L'ensoleillement du Québec*, 1981. Monthly evaporation records, sunshine and rain intensity summaries. Additional meteorological records and statistics.
8. **Languages:** French.
9. **User aids available:** Resource persons.
10. **Keywords:** Atmosphere; Climatology; Soils; Weather
11. **Additional information:** Evaporation, wind, soil temperature and solar radiation data updated annually with a 6-month delay. Sunshine and rainfall data are collected monthly with a 3-month delay.

Register

REG-0051-E

1. **Summary description:** Documents and monitoring specified in section 118.5 of the Environment Quality Act. Also contains information on Ministère de l'Environnement clientele.
- 2a. **Responsible organization:** Ministère de l'Environnement du Québec
- 2b. **Database contact:** Mr. Guy Gara, Direction des orientations et services aux régions, Ministère de l'Environnement du Québec, 3900 rue de Marly, Sainte-Foy, Qc G1X 4E4
Phone: (418) 644-7897 *Facsimile:* (418) 528-1085
- 2c. **Access mechanisms:** Through the regional branches.
- 3a. **Parameters measured:**
 - applications (authorization certificates, permits, issue of orders, appeals brought, issue of prior notice, issue of certificates, authorization certificates, certificates of environmental conformity)
 - applications and reapplications for a certificates
 - depollution programs
 - impact studies
- 3b. **Data acquisition methods:** Compilation of data obtained from various applications. Information from applications submitted to the regional branches or from data entered into the system.
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** Site or establishment, administrative region and, in the near future, municipality and regional county municipality.
- 3e. **Period of record:** 1987 to present. Some data that date from before 1987 may, depending on the region, be incomplete.
- 3f. **Update frequency:** Ongoing.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** Central DGI computer.
5. **Restrictions and conditions:** Some information is not distributed externally.
6. **Price information:** No charge for fewer than 20 pages, then \$0.25 per page.
7. **Corresponding printed sources:** None.
8. **Languages:** French.
9. **User aids available:** User's guide.
10. **Keywords:** Contaminants; Regulation; Enforcement
11. **Additional information:** Some data may be missing for companies that have been dissolved.

Recording Instruments System (Meteorology)

DQE-0032-E

1. **Summary description:** Database includes daily data on evaporation and hourly data on wind direction and speed. Other information includes data on sunshine, rainfall, solar radiation and soil temperature.
- 2a. **Responsible organization:** Ministère de l'Environnement du Québec
- 2b. **Database contact:** Mr. Michel G. Ferland, Direction des réseaux atmosphériques, Ministère de l'Environnement du Québec, 2360 chemin Sainte-Foy, 2nd floor, Sainte-Foy, Qc G1V 4H2
Phone: (418) 644-3461 *Facsimile:* (418) 643-9591
- 2c. **Access mechanisms:** On request (Mr. Jacques Aubin).
- 3a. **Parameters measured:**
 - evaporation data (evaporation from "A" pan, water and air temperature, wind direction, calculated lake evaporation)
 - wind direction and speed (measured at 16 and 8 cardinal points)
 - sunshine hours (duration)
 - rainfall (intensity)
 - soil temperature (measured at depths of 5, 10, 20 and 50 cm and depths of 1, 1.5 and 3 m)
 - solar radiation (strength per surface area)
- 3b. **Data acquisition methods:** Meteorological instruments. Data provided by the Quebec weather network.
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** Weather stations (latitude and longitude), meteorological regions, administrative regions.
- 3e. **Period of record:** 1960 to present for evaporation and solar radiation data. 1960 to 1990 for soil temperature and wind data from 1958 to present. Rainfall and sunshine data from 1963 to present.
- 3f. **Update frequency:** Various, (see 11).
- 4a. **Database storage format:** Hardcopy, diskette, tape, cartridge.
- 4b. **Database computer environment:** IBM 370/MVS and Passelle 3270, ULTIM, COBOL, FORTRAN.
5. **Restrictions and conditions:** Data available on payment of current fee.
6. **Price information:** Fee varies with nature of request and medium.

Sources of Industrial Pollution

SSP-0046-E

1. **Summary description:** Descriptive data on industry operations, authorizations and legal actions. Intervention by departments and general characterization of a source of industrial pollution.

- 2a. Responsible organization:** Ministère de l'Environnement du Québec
- 2b. Database contact:** Mr. Denys Dolbec, Service suivi et statistiques, Ministère de l'Environnement du Québec, 2360 rue Sainte-Foy, 3rd floor, Box 73, Sainte-Foy, Qc G1V 4H2
Phone: (418) 646-9227 Facsimile: (418) 644-2003
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- industry FCE and name
 - number of employees
 - industry contracts
 - responsible persons (industry)
 - industry intervention
 - industrial processes
 - water consumption
 - raw materials
 - products manufactured
 - effluents
 - air emissions, waste
- 3b. Data acquisition methods:** Sampling, analysis and report verification. Data provided by companies to persons responsible for the file in each region. These persons enter the data which are then transmitted to the central computer. MENVIQ (Ministère de l'Environnement du Québec) employees (in the regions) sometimes make personal visits for purposes of verification, with head office technical personnel doing the analysis.
- 3c. Geographic coverage:** Quebec.
- 3d. Geographic units of measure:** Firms, administrative regions, MENVIQ regions.
- 3e. Period of record:** 1975 to present.
- 3f. Update frequency:** Ongoing.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** DGI central computer, IDMS. PC, DBASE IV.
- 5. Restrictions and conditions:** Mainly for MENVIQ employees (some exceptions).
- 6. Price information:** Under the terms of the Access to Information Act.
- 7. Corresponding printed sources:** Reports of intervention and program progress. Statistics by MBR (Management by results) code.
- 8. Languages:** French.
- 9. User aids available:** User's guide.
- 10. Keywords:** Industry; Pollution; Regulation
- 11. Additional information:** This database is currently in the development phase. It is expected to be operational by the winter of 1994-95.

Telemetric Data Centre

CDT-0017-E

- 1. Summary description:** Centre for the acquisition, processing and distribution of hydrometeorology data received by satellite or telephone in real time.
- 2a. Responsible organization:** Ministère de l'Environnement du Québec
- 2b. Database contact:** Mr. Raymond Lavoie, Direction du réseau hydrique, Ministère de l'Environnement du Québec, 2360 rue Sainte-Foy, 2nd floor, Sainte-Foy, Qc G1V 4H2
Phone: (418) 644-8532 Facsimile: (418) 646-2367
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- cadastre map reference for site
 - water level
 - air parameters

- 3b. Data acquisition methods:** Data measured by recording instruments. Data received by satellite or telephone line in real time.
- 3c. Geographic coverage:** Quebec.
- 3d. Geographic units of measure:** Stations referenced by UTM coordinates, hydrographic basins
- 3e. Period of record:** Data held only for the last nine days.
- 3f. Update frequency:** Ongoing (data in real time).
- 4a. Database storage format:** Hard disk, diskette.
- 4b. Database computer environment:** PC, NOVELL network, DATAFLEX.
- 5. Restrictions and conditions:** Internal MENVIQ (Ministère de l'Environnement du Québec) users and external users.
- 6. Price information:** Decision pending.
- 7. Corresponding printed sources:** Reports or other publications based on this database.
- 8. Languages:** French.
- 9. User aids available:** User's guide.
- 10. Keywords:** Water; Hydrography; Climatology;
- 11. Additional information:**
1. Access by communication software via 3 telephone lines, 2 DATAPAC lines.
 2. The data are acquired and distributed in real time. They are accumulated only for the last 9 days, although similar data are compiled for the longer term by the same branch in the Hydrometric Database.

Users of Water

UE-0018-E

- 1. Summary description:** Inventory of Quebec users of water in the municipal, industrial, public/private and hydroelectric/thermal domains, by consumption.
- 2a. Responsible organization:** Ministère de l'Environnement du Québec
- 2b. Database contact:** Mr. Raymond Lavoie, Direction du réseau hydrique, Ministère de l'Environnement du Québec, 2360 rue Sainte-Foy, 2nd floor, Sainte-Foy, Qc G1V 4H2
Phone: (418) 644-8532 Facsimile: (418) 646-2367
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- user identification, position and consumption
- 3b. Data acquisition methods:** Surveys. Data provided by questionnaires and internal monitoring.
- 3c. Geographic coverage:** Quebec.
- 3d. Geographic units of measure:** Consumption sites referenced using UTM coordinates, hydrographic basins.
- 3e. Period of record:** 1980 to present.
- 3f. Update frequency:** Annually.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** DGI (Ministère des Communications) central computer. PC.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** French.
- 9. User aids available:** None.
- 10. Keywords:** Extraction; Water quantity; Rivers
- 11. Additional information:** Since 1988, only consumption in the context of the Great Lakes Charter (Sorel to Western Quebec) are inventoried and entered into the main database.

Watercourses

CE-0021-E

1. **Summary description:** Identification and map referencing of watercourses.
- 2a. **Responsible organization:** Ministère de l'Environnement du Québec
- 2b. **Database contact:** Mr. Raymond Lavoie, Direction du réseau hydrique, Ministère de l'Environnement du Québec, 2360 rue Sainte-Foy, 2nd floor, Sainte-Foy, Qc G1V 4H2
Phone: (418) 644-8532 *Facsimile:* (418) 646-2367
- 2c. **Access mechanisms:** Through DGI (Ministère des Communications).
- 3a. **Parameters measured:**
- name and map referencing of watercourses
- 3b. **Data acquisition methods:** Reading and measurement on topographical maps (1:50 000). Data sampled digitally.
- 3c. **Geographic coverage:** Quebec (south of 51st parallel).
- 3d. **Geographic units of measure:** River mouths referenced by UTM coordinates, hydrographic basins.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** Corrections only as required.
- 4a. **Database storage format:** Hardcopy, diskette, tape.
- 4b. **Database computer environment:** DGI (Ministère des Communications) central computer.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** French.
9. **User aids available:** Description of the database.
10. **Keywords:** Water; Hydrology; Rivers
11. **Additional information:** None.

Watersheds

BV-0020-E

1. **Summary description:** Moving downriver, tabulation of areas at various points of interest in the watershed.
- 2a. **Responsible organization:** Ministère de l'Environnement du Québec
- 2b. **Database contact:** Mr. Raymond Lavoie, Direction du réseau hydrique, Ministère de l'Environnement du Québec, 2360 rue Sainte-Foy, 2nd floor, Sainte-Foy, Qc G1V 4H2
Phone: (418) 644-8532 *Facsimile:* (418) 646-2367
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- area of selected sections of rivers
- 3b. **Data acquisition methods:** Reading and measurement on topographical maps (1:50 000).
- 3c. **Geographic coverage:** The southern section of the St. Lawrence River and part of the northern section.
- 3d. **Geographic units of measure:** River mouths referenced using UTM coordinates, watersheds.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Hardcopy, diskette, tape.
- 4b. **Database computer environment:** DGI (Ministère des communications) central computer.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.

7. **Corresponding printed sources:** Tabulation of watersheds by hydrographic region (1, 2 and 3).
8. **Languages:** French.
9. **User aids available:** To calculate the area at these intermediate points.
10. **Keywords:** Water; Watersheds; Hydrology
11. **Additional information:** None.



Ministère de la santé et des services sociaux

Database on Contamination of the Northern Aquatic Food Chain

BDC-0530-E

1. **Summary description:** Includes levels of various contaminants in the organisms that make up the northern food chain, including human beings. The region covers the Canadian North and Greenland.
- 2a. **Responsible organization:** Ministère de la santé et des services sociaux
- 2b. **Database contact:** Ms Hélène Careau, Centre de Santé Publique (Region Québec), Ministère de la santé et des services sociaux, 2050 boul. René Lévesque O., Sainte-Foy, Qc G1V 2K8
Phone: (418) 687-1090 *Facsimile:* (418) 681-5635
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- concentration of contaminants (organochlorines, metals, hydrocarbons)
- various tissues (human, marine mammal, fish, bird, invertebrate, polar bear)
- 3b. **Data acquisition methods:** In-depth literature review and contact with researchers and agencies involved.
- 3c. **Geographic coverage:** Canadian North.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** Ongoing.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** Macintosh.
5. **Restrictions and conditions:** None.
6. **Price information:** Not defined.
7. **Corresponding printed sources:** User's manual, *État de la contamination du Canada nordique du Groenland, 1992* (an english version is available).
8. **Languages:** French and English.
9. **User aids available:** User's manual.
10. **Keywords:** Arctic; Contaminants; Biology
11. **Additional information:** None.

Epidemics that Originate in Water in Quebec

EHQ-0531-E

1. **Summary description:** Variety of information on epidemics that originate in water as reported by public health branches in Quebec.
- 2a. **Responsible organization:** Ministère de la santé et des services sociaux

2b. Database contact: Mr. Daniel G. Bolduc, Comité de santé environnementale du Québec, Ministère de la santé et des services sociaux, 530 boul. de l'Atrium, Suite 101, Sainte-Foy, Qc G1H 7H1

Phone: (418) 623-1010 Facsimile: (418) 623-7513

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- illness
- micro-organism or chemical contaminant
- number of persons affected
- duration of epidemic
- type of water supply
- source of water
- circumstances surrounding the epidemic
- origin of the contamination

3b. Data acquisition methods: Questionnaire completed by regional public health offices.

3c. Geographic coverage: Quebec.

3d. Geographic units of measure: By administrative region.

3e. Period of record: 1989 to 1992.

3f. Update frequency: Annually.

4a. Database storage format: Diskette.

4b. Database computer environment: PC, EPI INFO.

5. Restrictions and conditions: None.

6. Price information: No charge.

7. Corresponding printed sources: Documents included in annual reports.

8. Languages: French.

9. User aids available: None.

10. Keywords: Health; Hydrology; Pollution

11. Additional information: None.



Ministère des Affaires Municipales

DÉMOMUNI

DEM-0078-E

1. Summary description: List of all municipalities in Quebec, with quinquennial population figures for 1951-91.

2a. Responsible organization: Ministère des Affaires Municipales

2b. Database contact: Mr. Pierre LaRochelle, Service de l'organisation municipale, Ministère des Affaires Municipales, 20 Chauveau, Québec, Qc G1R 4J3

Phone: (418) 691-2003 Facsimile: (418) 643-3455

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- geographic code
- RCM name
- administrative group
- area
- population

3b. Data acquisition methods: Compilation of data from the Bureau de la Statistique du Québec.

3c. Geographic coverage: Quebec.

3d. Geographic units of measure: Municipalities.

3e. Period of record: 1951 to 1991. The file has not been updated since October 1992.

3f. Update frequency: Every five years.

4a. Database storage format: Diskette.

4b. Database computer environment: PC, LOTUS 123, EXCEL.

5. Restrictions and conditions: Authorization required.

6. Price information: No charge.

7. Corresponding printed sources: None.

8. Languages: French.

9. User aids available: None.

10. Keywords: Demography; Municipalities; Population

11. Additional information: None.



Ministère des Forêts du Québec

Air Contaminants

CA-0100-E

1. Summary description: Computerized reference index to a variety of publications that report on air pollution.

2a. Responsible organization: Ministère des Forêts du Québec

2b. Database contact: Ms. Nathalie Lafontaine, Direction de l'environnement, Ministère des Forêts du Québec, 930 rue Sainte-Foy, 6th floor, Québec, Qc G1S 4X5

Phone: (418) 646-3373 Facsimile: (418) 643-5651

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- number
- title
- author
- source
- year of publication
- place
- keywords

3b. Data acquisition methods: Compilation of bibliographical information (USDA, Dialog, bibliographies of monographs or articles). Inter-library loan services of governments, universities and research agencies.

3c. Geographic coverage: Quebec, Canada, United States.

3d. Geographic units of measure: Not applicable.

3e. Period of record: Not applicable.

3f. Update frequency: Ongoing.

4a. Database storage format: Hardcopy, diskette.

4b. Database computer environment: PC, EDIBASE.

5. Restrictions and conditions: On-site consultation.

6. Price information: No charge.

7. Corresponding printed sources: None.

8. Languages: French and English.

9. User aids available: EDIBASE guide (manual).

10. Keywords: Atmosphere; Contaminants; Air quality

11. Additional information: None.

Climate Change

CC-0099-E

1. Summary description: Computerized reference index to a variety of publications that report on climate change.

2a. Responsible organization: Ministère des Forêts du Québec

- 2b. Database contact:** Ms. Nathalie Lafontaine, Direction de l'environnement, Ministère des Forêts du Québec, 930 rue Sainte-Foy, 6th floor, Québec, Qc G1S 4X5
Phone: (418) 646-3373 *Facsimile:* (418) 643-5651
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- number
 - title
 - author
 - source
 - year of publication
 - place
 - keywords
- 3b. Data acquisition methods:** Compilation of bibliographical information (USDA, Dialog, bibliographies of monographs or articles). Inter-library loan services of governments, universities and research agencies.
- 3c. Geographic coverage:** Quebec, Canada, United States.
- 3d. Geographic units of measure:** Not applicable.
- 3e. Period of record:** Not applicable.
- 3f. Update frequency:** Ongoing.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, EDIBASE.
- 5. Restrictions and conditions:** On-site consultation.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** French and English.
- 9. User aids available:** EDIBASE guide (manual).
- 10. Keywords:** Atmosphere; Climate change; Climatology
- 11. Additional information:** None.

Environmental Assessment

EE-0080-E

- 1. Summary description:** Computerized reference index to a variety of publications that report on forestry, environmental studies and reports, environmental assessments, policy/act/regulations, toxicology, biodiversity, sustainable development, forest management.
- 2a. Responsible organization:** Ministère des Forêts du Québec
- 2b. Database contact:** Ms. Nathalie Lafontaine, Direction de l'environnement, Ministère des Forêts du Québec, 930 chemin Sainte-Foy, 6th floor, Québec, Qc G1S 4X5
Phone: (418) 646-3373 *Facsimile:* (418) 643-5651
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- title
 - author
 - year of publication
 - source
 - number
 - place
 - key words
- 3b. Data acquisition methods:** Compilation of bibliographical information (USDA, Dialog, bibliographies of monographs or articles). Inter-library loan services of governments, universities and research agencies.
- 3c. Geographic coverage:** Quebec, Canada, United States, Europe.
- 3d. Geographic units of measure:** Not applicable.
- 3e. Period of record:** Not applicable.
- 3f. Update frequency:** Ongoing.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, EDIBASE.

- 5. Restrictions and conditions:** On-site consultation.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** French and English.
- 9. User aids available:** EDIBASE guide (manual). Summary procedure for research and addition of keywords.
- 10. Keywords:** Research; Environmental Science; Regulation
- 11. Additional information:** None.

Foams

M-0098-E

- 1. Summary description:** Computerized index of fire extinguishing foams and other forest fire retardants: environmental behaviour, toxicology, safety, application, legislation.
- 2a. Responsible organization:** Ministère des Forêts du Québec
- 2b. Database contact:** Ms. Nathalie Lafontaine, Direction de l'environnement, Ministère des Forêts du Québec, 930 rue Sainte-Foy, 6th floor, Québec, Qc G1S 4X5
Phone: (418) 646-3373 *Facsimile:* (418) 643-5651
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- number
 - title
 - author
 - source
 - date
 - place
 - key words
- 3b. Data acquisition methods:** Compilation of bibliographical information (USDA, Dialog, bibliographies of monographs or articles). Inter-library loan services of governments, universities and research agencies.
- 3c. Geographic coverage:** Quebec, Canada, United States.
- 3d. Geographic units of measure:** Not applicable.
- 3e. Period of record:** Not applicable.
- 3f. Update frequency:** Ongoing.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, EDIBASE.
- 5. Restrictions and conditions:** On-site consultation.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** French, English and German.
- 9. User aids available:** EDIBASE guide (manual).
- 10. Keywords:** Fire; Forestry; Forests
- 11. Additional information:** None.

Forest Inventory

IF-0082-E

- 1. Summary description:** Alphanumeric database used to assess the economic potential of a forest area. Contains qualitative and quantitative information per unit area on the varied units of a timber stand.
- 2a. Responsible organization:** Ministère des Forêts du Québec
- 2b. Database contact:** Mr. Daniel Demers, Service des inventaires forestiers, Direction de la gestion des stocks forestiers, Ministère des Forêts du Québec, 880 rue Sainte-Foy, Québec, Qc G1S 4X7
Phone: (418) 646-5523 *Facsimile:* (418) 644-9672
- 2c. Access mechanisms:** Through the responsible organization.

3a. Parameters measured:

- land components (ownership (provincial, federal), public or private sector, district)
- information on timber stands (area)
- dendrometric data (count, species, diameter, average age, height)

3b. Data acquisition methods: Data obtained from aerial photographs, satellite images (annual fluctuations), or field work (dendrometric data).

3c. Geographic coverage: Quebec (mainly south of the 52nd parallel).

3d. Geographic units of measure: Timber stands, administrative regions and other land components.

3e. Period of record: Renewed every 8 to 10 years for the entire territory.

3f. Update frequency: Ongoing.

4a. Database storage format: Hardcopy, diskette, tape.

4b. Database computer environment: DGI (Ministère des Communications) central computer.

5. Restrictions and conditions: None, but data may be aggregated for distribution.

6. Price information: Varies with nature of request.

7. Corresponding printed sources: A number of publications have been produced for each land area.

8. Languages: French.

9. User aids available: None.

10. Keywords: Forestry; Forests; Trees

11. Additional information: Results may be mapped on a scale of 1:20 000. Maps showing land components (1:250 000) and summary maps (1:250 000) are also available.

Insecticides

I-0084-E

1. Summary description: Computerized reference index to the biological and chemical insecticides used to fight the spruce budworm (effectiveness, contamination, regulation, safety, formulation).

2a. Responsible organization: Ministère des Forêts du Québec

2b. Database contact: Ms. Nathalie Lafontaine, Direction de l'environnement, Ministère des Forêts du Québec, 930 chemin Sainte-Foy, 6th floor, Québec, Qc G1S 4X5

Phone: (418) 646-3373 *Facsimile:* (418) 643-5651

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- title
- author
- year of publication
- source
- number
- place
- key words

3b. Data acquisition methods: Compilation of bibliographical information (USDA, Dialog, bibliographies of monographs or articles). Inter-library loan services of governments, universities and research agencies.

3c. Geographic coverage: Quebec, Canada, United States, Europe, Japan, Australia.

3d. Geographic units of measure: Not applicable.

3e. Period of record: Not applicable.

3f. Update frequency: Ongoing.

4a. Database storage format: Hardcopy.

4b. Database computer environment: VAX.

5. Restrictions and conditions: On-site consultation.

6. Price information: No charge.

7. Corresponding printed sources: None.

8. Languages: French and English.

9. User aids available: User's guide.

10. Keywords: Forestry; Forests; Pesticides

11. Additional information: None.

Sludge

B-0085-E

1. Summary description: Computerized reference index to various publications that report on assessment of sewage sludge (municipal, septic tank, pulp and paper, de-inking) in a woodland environment; characterization, environmental impact (soil, water, land animals, vegetation), environmental assessment, human safety and health.

2a. Responsible organization: Ministère des Forêts du Québec

2b. Database contact: Ms. Nathalie Lafontaine, Direction de l'environnement, Ministère des Forêts du Québec, 930 rue Sainte-Foy, 6th floor, Québec, Qc G1S 4X5

Phone: (418) 646-3373 *Facsimile:* (418) 643-5651

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- number
- title
- author
- source
- date
- place
- key words

3b. Data acquisition methods: Compilation of bibliographical information (USDA, Dialog, bibliographies of monographs or articles). Inter-library loan services of governments, universities and research agencies.

3c. Geographic coverage: Quebec, Canada, United States.

3d. Geographic units of measure: Not applicable.

3e. Period of record: Not applicable.

3f. Update frequency: Ongoing.

4a. Database storage format: Hardcopy, diskette.

4b. Database computer environment: PC, EDIBASE.

5. Restrictions and conditions: On-site consultation.

6. Price information: No charge.

7. Corresponding printed sources: None.

8. Languages: French and English.

9. User aids available: Edibase guide (manual).

10. Keywords: Contaminants; Disposal; Waste

11. Additional information: None.



Ministère des Transports du Québec

Accidents

ACC-0427-E

1. Summary description: Information on accidents, geometry, traffic flow for purposes of study, research and comparison.

2a. Responsible organization: Ministère des Transports du Québec

- 2b. Database contact:** Mr. Guy Vaillancourt, Direction de la planification, Service de la sécurité dans les transports, Ministère des Transports du Québec, 700 boul. René Lévesque E., 21st floor, Québec, Qc G1R 5H1
Phone: (418) 644-6331 *Facsimile:* (418) 644-7249
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- accidents (average rate, critical rate, number)
 - highways (main highway, secondary highway)
 - period
- 3b. Data acquisition methods:** Sampling survey and administrative file from census. Traffic flow and geometry from Direction des politiques d'exploitation et programmes routiers. Accidents data from Société de l'assurance automobile du Québec.
- 3c. Geographic coverage:** Quebec.
- 3d. Geographic units of measure:** Municipality. MTQ (Ministère des Transports du Québec) administrative region.
- 3e. Period of record:** 1984 to present. All data are available for the past ten years.
- 3f. Update frequency:** As required.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, SAS, DBASE, LOTUS 123.
- 5. Restrictions and conditions:** None.
- 6. Price information:** To be determined.
- 7. Corresponding printed sources:** None.
- 8. Languages:** French.
- 9. User aids available:** None.
- 10. Keywords:** Transportation; Vehicles; Research
- 11. Additional information:** Database under development.

Daily Reports

RAJ-0538-E

- 1. Summary description:** All operations conducted through various department programs, specifically those that affect the highway network.
- 2a. Responsible organization:** Ministère des Transports du Québec
- 2b. Database contact:** Mr. Jean Gaudreault, Direction des technologies de l'information, Service du développement des systèmes d'information, Ministère des Transports du Québec, 700 boul. René Lévesque E., 15th floor, Québec, Qc G1R 5H1
Phone: (418) 646-1753 *Facsimile:* (418) 644-0266
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- departmental programs (transportation systems, highway network construction and maintenance of transportation infrastructures, internal management and support, Commission des transports du Québec, water and air transport, school transportation, government air transport)
 - expenditure categories
 - work units
 - operations
- 3b. Data acquisition methods:** Administrative file with census. Form V-1036 (daily report) completed by management centres.
- 3c. Geographic coverage:** Quebec.
- 3d. Geographic units of measure:** Municipality. Provincial electoral district. MTQ (Ministère des Transports du Québec) administrative region.
- 3e. Period of record:** 1980 to present.
- 3f. Update frequency:** Daily (see 11).
- 4a. Database storage format:** Diskette, tape.

- 4b. Database computer environment:** Mainframe, COBOL, SAS.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** French.
- 9. User aids available:** System user's guide. Glossary of activities and operations.
- 10. Keywords:** Construction; Expenditures; Transportation
- 11. Additional information:** For purposes of annual compilation, the year begins on April 1.

General Transportation Data, Montreal Area

DGT-0436-E

- 1. Summary description:** Database relating specific demographic characteristics (population, households, vehicle ownership) to the movements observed in the origin/destination survey sectors.
- 2a. Responsible organization:** Ministère des Transports du Québec
- 2b. Database contact:** Mr. Sylvain Sauvé, Direction du transport terrestre des personnes, Service des politiques et programmes en transport public, Ministère des Transports du Québec, 35 rue de Port-Royal E., 2nd floor, Montréal, Qc H3L 3T1
Phone: (514) 864-1706 *Facsimile:* (514) 873-7389
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- population by sector
 - dwellings (number of persons, number of vehicles)
 - movement by purpose and method for points of origin/destination
 - number of jobs per sector
- 3b. Data acquisition methods:** Sample survey. Administrative file with census (Statistics Canada five-year census). STCUM origin/destination survey. OPT annual reports.
- 3c. Geographic coverage:** Montreal area.
- 3d. Geographic units of measure:** Administrative regions of Montreal. Origin/destination zones and sectors.
- 3e. Period of record:** 1971 to 1989. Most of the data are available from 1971 to 1989.
- 3f. Update frequency:** As required.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, EXCEL.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** French.
- 9. User aids available:** None.
- 10. Keywords:** Households; Population; Transportation
- 11. Additional information:** None.

Inventory of Transport Infrastructure

IIT-0429-E

- 1. Summary description:** Database of the highway network and structures.
- 2a. Responsible organization:** Ministère des Transports du Québec
- 2b. Database contact:** Mr. Daniel Aubé, Direction des technologies de l'information, Service des systèmes d'information à la clientèle-Est, Ministère des Transports du Québec, 700 boul. René Lévesque E., 14th floor, Québec, Qc G1R 5H1
Phone: (418) 528-1025 *Facsimile:* (418) 644-0266

- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- Inventory of highway network (route and content by function classification: highway, segment, section, link, surface and lane)
 - inventory of structures (bridge, wall, tunnel, ramp, causeway, culvert)
- 3b. Data acquisition methods:** Administrative file with census. Inventory of highway network by section. Inventory of structures by structure from the Direction générale des services à la gestion and territorial directorates.
- 3c. Geographic coverage:** Quebec.
- 3d. Geographic units of measure:** Municipality, RCM and urban community. Provincial electoral district, MTQ (Ministère des Transports du Québec) administrative region.
- 3e. Period of record:** 1992 to present.
- 3f. Update frequency:** Daily.
- 4a. Database storage format:** Hardcopy.
- 4b. Database computer environment:** Mainframe.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** French.
- 9. User aids available:** Databank accessed by applicant.
- 10. Keywords:** Expenditures; Transportation; Vehicles
- 11. Additional information:** None.

MTQ Investment in Quebec

IMQ-0426-E

- 1. Summary description:** Database covering MTQ (Ministère des Transports du Québec) investment in transport (highway, water and air) infrastructure construction and repair.
- 2a. Responsible organization:** Ministère des Transports du Québec
- 2b. Database contact:** Mr. Mario Béland, Direction de la coordination de la recherche et de l'information, Service des statistiques et économie en transport, Ministère des Transports du Québec, 700 boul. René Lévesque E., 17th floor, Québec, Qc G1R 5H1
Phone: (418) 643-5463 Facsimile: (418) 643-1269
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- capital expenditure (highway network, water transport, air transport, data processing, acquisitions, excess real property)
 - non-capital expenditures
- 3b. Data acquisition methods:** Administrative file with census. SYGBEC, Ministère des Finances: Investment expenditure. Compilation by service du matériel. Capital expenditures: Direction des technologies de l'information.
- 3c. Geographic coverage:** Quebec.
- 3d. Geographic units of measure:** All of Quebec. Quebec administrative region. MTQ administrative region.
- 3e. Period of record:** 1988 to present. All data are available from 1988 on.
- 3f. Update frequency:** Annually (see 11).
- 4a. Database storage format:** Hardcopy.
- 4b. Database computer environment:** PC, LOTUS 123.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** French.

- 9. User aids available:** None.
- 10. Keywords:** Expenditures; Transportation; Construction
- 11. Additional information:** For purposes of annual compilation, the year begins on April 1.

Physical Inventory and Inventory of Mechanical Shops

IMA-0537-E

- 1. Summary description:** Data on physical inventory of vehicles and parts. Description of inventory, purchasers and suppliers.
- 2a. Responsible organization:** Ministère des Transports du Québec
- 2b. Database contact:** Mr. Michel Dubriel, Direction des technologies de l'information, Service du développement des systèmes d'information, Ministère des Transports du Québec, 700 boul. René Lévesque E., 15th floor, Québec, Qc G1R 5H1
Phone: (418) 646-1753 Facsimile: (418) 644-0266
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- physical inventory (quantity by type, quantity of stock to be purchased by type, quantity of physical inventory consumed)
 - shops (for each type of vehicle: inventory quantity, forecast quantity purchased/consumed, suppliers)
- 3b. Data acquisition methods:** Administrative file from census. Purchase documents, inventory output documents. Territorial directorates and service centres.
- 3c. Geographic coverage:** Quebec.
- 3d. Geographic units of measure:** Territorial directorate. Department administrative region.
- 3e. Period of record:** 1986 to present.
- 3f. Update frequency:** Daily or monthly depending on the data (see 11).
- 4a. Database storage format:** Hardcopy, file transfer to the SAAQ Télématique central computer.
- 4b. Database computer environment:** Minicomputer. PC, PROCOL, SAS.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** French.
- 9. User aids available:** User's guide.
- 10. Keywords:** Expenditures; Transportation; Vehicles
- 11. Additional information:** For the purposes of annual compilation, the year begins on April 1.

Public Transit

TEC-0431-E

- 1. Summary description:** Operating reports of organizations, including a detailed statement of revenue and expenditure and operating figures on urban and suburban public transit services.
- 2a. Responsible organization:** Ministère des Transports du Québec
- 2b. Database contact:** Ms. Louise Guimont, Direction du transport terrestre des personnes, Services des politiques et des programmes en transport public, Ministère des Transports du Québec, 700 boul. René Lévesque E., 24th floor, Québec, Qc G1R 5H1
Phone: (418) 634-8527 Facsimile: (418) 646-4904
- 2c. Access mechanisms:** Through the responsible organization.

3a. Parameters measured:

- expenditures
- spatial data
- energy
- passengers, human resources
- revenue
- grants and contributions
- time
- vehicles

3b. Data acquisition methods: Administrative file from census. Operating reports for the public transit organizations and intermunicipal transit organizations.

3c. Geographic coverage: Quebec.

3d. Geographic units of measure: All of Quebec. Urban and suburban public transit territory.

3e. Period of record: 1988 to present.

3f. Update frequency: Annually (see 11).

4a. Database storage format: Hardcopy.

4b. Database computer environment: PC, LOTUS 123, DBASE.

5. Restrictions and conditions: None.

6. Price information: No charge.

7. Corresponding printed sources: Annual statistical inventory of intermunicipal transit organizations.

8. Languages: French.

9. User aids available: None.

10. Keywords: Expenditures; Transportation; Vehicles

11. Additional information:

1. Not an integrated system.
2. Data on 9 public transit organizations and 30 municipal and intermunicipal transit organizations.
3. For the purposes of annual compilation, the year begins on January 1.

School Transportation

TS-0536-E

1. Summary description: Statistics on clientele and vehicle fleet, financial data on school transport costs.

2a. Responsible organization: Ministère des Transports du Québec

2b. Database contact: Ms. Louise Guimont, Direction du transport terrestre des personnes, Service des politiques et des programmes en transport public, Ministère des Transports du Québec, 700 boul. René Lévesque E., 24th floor, Québec, Qc G1R 5H1

Phone: (418) 634-8527 Facsimile: (418) 646-4904

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- expenditure
- spatial data
- passengers
- grants and contributions
- vehicles

3b. Data acquisition methods: Administrative file from census. Statistics on clientele and network organization. Operating report for the transportation of pupils. Applications for grants specifically for the transportation of children and of disabled persons with adjustment difficulties and learning disorders.

3c. Geographic coverage: Quebec.

3d. Geographic units of measure: School commission or group of school commissions.

3e. Period of record: 1982 to present.

3f. Update frequency: Annually (see 11).

4a. Database storage format: Hardcopy.

4b. Database computer environment: Mainframe, SAS.

5. Restrictions and conditions: None.

6. Price information: No charge.

7. Corresponding printed sources: *Répertoire statistique du transport adapté*, annual report.

8. Languages: French.

9. User aids available: None.

10. Keywords: Expenditures; Transportation; Vehicles; Statistics

11. Additional information: For purposes of annual compilation, the year begins on July 1.

Scientific and Technical Activities of the Ministère des Transports du Québec

AST-0428-E

1. Summary description: Database on the research undertaken (expenditure and forecasted expenditure, human resources) by the department.

2a. Responsible organization: Ministère des Transports du Québec

2b. Database contact: Mr. Mario Béland, Direction de la coordination de la recherche et Service des statistiques et économie en transport, Ministère des Transports du Québec, 700 boul. René Lévesque E., 17th floor, Québec, Qc G1R 5H1

Phone: (418) 643-5463 Facsimile: (418) 643-1269

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- product sectors:
- research and experimental development (current expenditure and capital expenditure)
- related scientific activities
- expenditure by product sector
- department personnel assigned to scientific activities (category and sector)

3b. Data acquisition methods: Survey by census. Activities of the department in the humanities and social sciences and of the Direction générale de la planification et de la technologie in the natural sciences.

3c. Geographic coverage: Quebec.

3d. Geographic units of measure: The entire province.

3e. Period of record: 1989 to present. All data are available from 1989 on.

3f. Update frequency: Annually.

4a. Database storage format: Hardcopy.

4b. Database computer environment: PC, LOTUS 123.

5. Restrictions and conditions: None.

6. Price information: No charge.

7. Corresponding printed sources: None.

8. Languages: French.

9. User aids available: None.

10. Keywords: Expenditures; Research; Transportation

11. Additional information: None.

Traffic

CIR-0430-E

1. Summary description: Measurement of traffic with a view to quantifying the traffic volume on the major highway network.

2a. Responsible organization: Ministère des Transports du Québec

2b. Database contact: Mr. Jean David, Direction des politiques d'exploitation et programmes routier, Ministère des Transports du Québec, 700 boul. René Lévesque E., 19th floor, Québec, Qc G1R 5H1

Phone: (418) 644-6320 *Facsimile:* (418) 644-9662

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- average daily volume (annual, summer, winter)
- variation in volume (hourly for one day, daily for one week, monthly for 12 months)
- special studies

3b. Data acquisition methods: Sampling survey, traffic counters (permanent or temporary). Interviews on origin/destination. Direction des politiques d'exploitation et programmes routiers.

3c. Geographic coverage: Quebec.

3d. Geographic units of measure: Municipality. RCM and urban community. MTQ (Ministère des Transports du Québec) administrative region. Territorial directorate.

3e. Period of record: 1982 to present. Most of the data are available from 1982 on.

3f. Update frequency: As required.

4a. Database storage format: Hardcopy, diskette.

4b. Database computer environment: PC, DBASE, SAS.

5. Restrictions and conditions: None.

6. Price information: No charge.

7. Corresponding printed sources: Highway traffic flow pattern (annual). Surveys of traffic on the highways of Quebec (annual). Data on traffic by route number, segment and section (1990, 1992 and yearly thereafter).

8. Languages: French.

9. User aids available: Technical opinions of resource persons.

10. Keywords: Transportation; Vehicles; Research

11. Additional information: Information system currently undergoing transformation.

Winter Maintenance

EH-0437-E

1. Summary description: Description of winter maintenance provisions and providers.

2a. Responsible organization: Ministère des Transports du Québec

2b. Database contact: Mr. Michel Brown, Service de l'assurance de la qualité, Direction de la qualité des infrastructures, Ministère des Transports du Québec, 200 rue Dorchester S., 3rd floor, Québec, Qc G1K 5Z1

Phone: (418) 643-5569 *Facsimile:* (418) 644-6963

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- maintenance contracts (snow removal, ice removal)
- day labour (expenditure for snow removal, ice removal or contract-related work)

3b. Data acquisition methods: Administrative file with census. Form V-155. Territorial directorates and service centres.

3c. Geographic coverage: Quebec.

3d. Geographic units of measure: Municipality. RCM and urban community. Municipal county, provincial electoral district. Department administrative region.

3e. Period of record: 1972 to present.

3f. Update frequency: Daily for some data.

4a. Database storage format: Hardcopy, diskette.

4b. Database computer environment: Mainframe, PC, SAS.

5. Restrictions and conditions: Confidentiality of information.

6. Price information: Under the terms of the Access to Information Act.

7. Corresponding printed sources: None.

8. Languages: French.

9. User aids available: None.

10. Keywords: Expenditures; Transportation; Water quality

11. Additional information: For purposes of annual compilation, the year begins on August 1.



Ministère du Loisir de la Chasse et de la Pêche

Aquatic Fauna Information System

SIF-0089-E

1. Summary description: Aquatic fauna information system.

2a. Responsible organization: Ministère du Loisir de la Chasse et de la Pêche

2b. Database contact: Mr. Michel Cantin, Service de l'aménagement et de l'exploitation de la faune, Ministère du Loisir de la Chasse et de la Pêche (MLCP), 9530 de la Faune, Charlesbourg, Qc G1G 5H9

Phone: (418) 622-5151 *Facsimile:* (418) 622-3014

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- physico-chemical parameters (aluminum, alkalinity)
- methods used to survey the species
- fishery statistics
- developments implemented by the MLCP or other partners
- seedings

3b. Data acquisition methods: Compilation of data from a variety of sources. Data collected using various types of physico-chemical analysis, numerous methods of species census (net, sport fishing, electrical) or field verification (development).

3c. Geographic coverage: Quebec, North Shore, Saguenay-Lac-St-Jean, Gaspé regions, and part of the Outaouais and Abitibi regions.

3d. Geographic units of measure: Lakes or segments of water-courses referenced by UTM coordinates, hydrographic basin, regional county municipality, administrative region.

3e. Period of record: 1940 to present. Some incomplete data go back to 1930.

3f. Update frequency: Ongoing.

4a. Database storage format: Hardcopy, diskette.

4b. Database computer environment: PC, FOXPRO.

5. Restrictions and conditions: Consultation by the person responsible.

6. Price information: No charge.

7. Corresponding printed sources: Cantin, M., *Guide de l'usage*, 1992. Report for internal use, on-site consultation.

8. Languages: French.

9. User aids available: None.

10. Keywords: Fish; Lakes; Wildlife

11. Additional information: None.

Archipelago Project

PA-0095-E

1. **Summary description:** Physico-chemical data, benthos, zooplankton, periphyton, vegetation, fish fauna, telemetry, sports and recreation, 1981-1982 archipelago project.
- 2a. **Responsible organization:** Ministère du Loisir de la Chasse et de la Pêche
- 2b. **Database contact:** Ms. Louise Lapierre, St. Lawrence Centre, Environnement Canada, 105 rue McGill, Montréal, Qc H2Y 2E7
Phone: (514) 283-9995 *Facsimile:* (514) 283-9451
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - physico-chemical parameters (aluminum, alkalinity)
 - benthos
 - zooplankton
 - fish
 - periphyton
 - vegetation
 - telemetry
 - sports and recreation
 - socioeconomic data
- 3b. **Data acquisition methods:** Compilation of data from a variety of sources. Data collected using a range of physico-chemical analysis methods, fish species censuses, socio-economic studies.
- 3c. **Geographic coverage:** Montreal archipelago.
- 3d. **Geographic units of measure:** Sampling stations referenced by latitude and longitude.
- 3e. **Period of record:** 1981 to 1983. (Archipelago project) 1963 to 1978 (fish archives file).
- 3f. **Update frequency:** None.
- 4a. **Database storage format:** Hardcopy, diskette, tape.
- 4b. **Database computer environment:** VAX. PC, LOTUS 123, DBASE.
5. **Restrictions and conditions:** Prior authorization from the data centre contact.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Series of reports entitled *Projet archipel*.
8. **Languages:** French.
9. **User aids available:** None.
10. **Keywords:** Biodiversity; Environmental Science; St. Lawrence River
11. **Additional information:** None.

Big Game System

SGF-0086-E

1. **Summary description:** Annual big game harvest figures.
- 2a. **Responsible organization:** Ministère du Loisir de la Chasse et de la Pêche
- 2b. **Database contact:** Mr. Gilles Lamontagne, Direction de la faune et des habitats, Ministère du Loisir de la Chasse et de la Pêche (MLCP), 150 boul. René Lévesque E., Québec, Qc G1R 4Y1
Phone: (418) 644-8099 *Facsimile:* (418) 646-6863
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - species
 - harvest figures

- 3b. **Data acquisition methods:** Compilation of information provided by the officers. The samples are usually reported to the officers by the hunters.
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** Hunting zones, MLCP mercator.
- 3e. **Period of record:** 1971 to present.
- 3f. **Update frequency:** Ongoing.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** DGI (Ministère des Communications) central computer, IDMS, SAS.
5. **Restrictions and conditions:** Some data confidential, prior authorization required.
6. **Price information:** According to agreement.
7. **Corresponding printed sources:** MLCP, *Manuel de gestion pour la grande faune*, 1987, 250 pages. Dubé, Clément, *Guide de l'utilisateur*, 1987, 70 pages. Both reports for departmental use.
8. **Languages:** French.
9. **User aids available:** User's guide.
10. **Keywords:** Biology; Ecosystems; Wildlife
11. **Additional information:** None.

Commercial and Sport Salmon Fishing (North Shore)

PCS-0097-E

1. **Summary description:** Two separate databases on sport and commercial salmon fishing catches in the St. Lawrence River and the rivers along the North Shore.
- 2a. **Responsible organization:** Ministère du Loisir de la Chasse et de la Pêche
- 2b. **Database contact:** Mr. Alain Gaudreault, Direction régionale de la Côte-Nord, Ministère du Loisir de la Chasse et de la Pêche, 818 boul. Laure, Sept-Iles, Qc G4R 1Y8
Phone: (418) 968-1401 *Facsimile:* (418) 962-0436
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - map referencing of catches by river or fisherman
 - weight (commercial fishery)
 - salmon size (sport fishing, number caught)
- 3b. **Data acquisition methods:** Compilation of data provided by fishermen.
- 3c. **Geographic coverage:** North Shore region.
- 3d. **Geographic units of measure:** Nets or rivers referenced by latitude and longitude, fishing sector, municipality by municipal code, RCM.
- 3e. **Period of record:** 1984 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE III.
5. **Restrictions and conditions:** Prior authorization and consultation by the data centre contact.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Annual operating report on salmon fishing (provincial, regional report). There is also a five-year report.
8. **Languages:** French.
9. **User aids available:** User's guide.
10. **Keywords:** Fish; Fisheries; Gulf of St. Lawrence; St. Lawrence River
11. **Additional information:** Databases on salmon in other regions also exist. For additional information, contact the person listed for each region: salmon sport fishing in Gaspé (Mr. Jean-

Pierre Lebel, Phone: (418) 722-3830); characteristics of adult and juvenile salmon on a small number of experimental rivers) Mr. François Caron, Phone: (418) 643-5442); other databases: Lac Saint Jean area (Mr. Claude Dussault, Phone: 695-7888); Quebec City (Mr. Stan Georges, Phone (418) 622-5151).

Duck

CAN-0094-E

1. **Summary description:** Inventory data on waterfowl in the river corridor (St. Lawrence River), on the basis of Canadian Wildlife Service zoning (see 11).
- 2a. **Responsible organization:** Ministère du Loisir de la Chasse et de la Pêche
- 2b. **Database contact:** Mr. Louis Houde, Service de l'aménagement et de l'exploitation de la faune, Ministère du Loisir de la Chasse et de la Pêche, 5575 Saint Joseph, Trois-Rivières Ouest, Qc G8Z 4L7
Phone: (819) 373-4442 Facsimile: (819) 373-2901
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - inventory date
 - inventory type
 - species or group of species
 - type of environment
 - number observed
- 3b. **Data acquisition methods:** Aerial inventories done by helicopter or airplane.
- 3c. **Geographic coverage:** St. Lawrence River corridor from Saint Pierre Lake to Leclercville. Other zones available (see 11).
- 3d. **Geographic units of measure:** Zones and sub-zones of varied areas.
- 3e. **Period of record:** 1982 to 1988.
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, Canard-exe software.
5. **Restrictions and conditions:** Authorization and prior validation required.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Bourget, A. et al, *Manuel technique de récolte de données sur les oiseaux migrateurs*, 1991, Canadian Wildlife Service, 260 pages, on-site consultation.
8. **Languages:** French.
9. **User aids available:** Operation manual with diskette.
10. **Keywords:** Biology; Birds; Wetlands;
11. **Additional information:**
 1. This database is available on diskette, software included. The software allows viewing of the inventory zones, as well as calculation of averages and maximum numbers observed.
 2. Data are also available for other zones in the river corridor. For additional information, contact the resource person for this database.
 3. Although the zoning used for the inventory is more detailed than the Canadian Wildlife Service zoning, the macrozoning is the same.

Fish Stocking Management System

SYG-0096-E

1. **Summary description:** Information on fish stocking carried out in public water bodies in Quebec and managed by the MLCP, and map references for seeded bodies of water.

- 2a. **Responsible organization:** Ministère du Loisir de la Chasse et de la Pêche
- 2b. **Database contact:** Mr. Yvan Guillemette, Service de la faune aquatique, Direction de la faune et des habitats, Ministère du Loisir de la Chasse et de la Pêche, 9530 de la Faune, Charlesbourg, Qc G1G 5H9
Phone: (418) 643-5412 Facsimile: (418) 646-6863
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - map referencing of seeded bodies of water
 - species, lineage, phase
 - quantity
 - weight
 - source of fish stock
- 3b. **Data acquisition methods:** Data provided by the regional services (on fiches).
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** Bodies of water referenced by MENVIQ (Ministère de l'Environnement du Québec) identification number, municipality, regional county municipality, administrative region.
- 3e. **Period of record:** 1990 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE IV.
5. **Restrictions and conditions:** Prior authorization and consultation by the data centre contact.
6. **Price information:** May vary with the request.
7. **Corresponding printed sources:** Guillemette, Yvan, *Rapports d'ensemencements*. Series of annual reports.
8. **Languages:** French.
9. **User aids available:** See data centre contact.
10. **Keywords:** Biology; Fish; Lakes
11. **Additional information:** None.

Fur System

SF-0087-E

1. **Summary description:** Quantity of furs harvested by Quebec trappers, trapline coordinates and licences.
- 2a. **Responsible organization:** Ministère du Loisir de la Chasse et de la Pêche
- 2b. **Database contact:** Mr. René Lafond, Service de la faune terrestre, Direction de la faune et des habitats, Ministère du Loisir de la Chasse et de la Pêche (MLCP), 150 boul. René Lévesque E., 5th floor, Québec, Qc G1R 4Y1
Phone: (418) 644-8064 Facsimile: (418) 646-6863
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - information by species and harvest territory, calculated on the basis of commercial fur transactions (number, source and map reference)
 - trapper's place of residence
 - map reference and area of traplines
 - term of trapping lease
 - lease cost
- 3b. **Data acquisition methods:** Fur trade and activities of trappers. Monthly report on fur trader activity. Annual report on registered trapper activity.
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** Registered trapper's place of residence, traplines, ZEC (controlled harvesting zones), beaver reserve, wildlife reserve, administrative region.
- 3e. **Period of record:** 1984 to present.

- 3f. **Update frequency:** Ongoing.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** DGI (Ministère des Communications) central computer, IDMS, SAS.
5. **Restrictions and conditions:** Some information confidential, written consent required..
6. **Price information:** According to the current fee schedule.
7. **Corresponding printed sources:** Lafortune, Francine, *Guide de l'utilisateur, système des fourrures*, 1987, 70 pages (updated 1990). Annual report, *Piégeage des animaux à fourrure du Québec, principales règles*.
8. **Languages:** French.
9. **User aids available:** User's manual.
10. **Keywords:** Harvesting; North; Wildlife
11. **Additional information:** Some incomplete data, which may go as far back as 1917, are available on hardcopy only.

Habitat Information System

SIH-0088-E

1. **Summary description:** Data on fauna habitats, species and population density, designed to facilitate management of Chapter IV.1 of the Act Respecting the Conservation and Development of Wildlife.
- 2a. **Responsible organization:** Ministère du Loisir de la Chasse et de la Pêche
- 2b. **Database contact:** Ms. Louise Trudeau, Service des habitats, Direction de la faune et des habitats, Ministère du Loisir de la Chasse et de la Pêche (MLCP), 150 boul. René Lévesque E., 5th floor, Québec, Qc G1R 4Y1
Phone: (418) 646-6865 *Facsimile:* (418) 646-6863
- 2c. **Access mechanisms:** Restricted use (see restrictions).
- 3a. **Parameters measured:**
 - fauna habitat (species, population density, area, type of vegetation, map reference)
- 3b. **Data acquisition methods:** Aerial, land and water inventories. Data obtained from MLCP, the Canadian Wildlife Service and biodiversity studies.
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** Habitats map referenced by UTM coordinates, administrative region, MLCP regional branch.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** On the basis of fauna habitat inventory planning.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** Central DGI (Ministère des Communications) computer, IDMS, SAS.
5. **Restrictions and conditions:** For internal use only (see 11).
6. **Price information:** Not applicable.
7. **Corresponding printed sources:** Inventory records. Maps of fauna habitats.
8. **Languages:** French.
9. **User aids available:** None.
10. **Keywords:** Ecology; Ecosystems; Habitats; Wildlife
11. **Additional information:** The fauna habitat information system cannot be satisfactorily operated by clientele outside the MLCP. It requires extensive training and its use requires the data to be complemented by MLCP departmental documentation and expertise.

Licensing System

SP-0091-E

1. **Summary description:** Hunting, fishing and trapping licences for the public. Points of sale and agents.
- 2a. **Responsible organization:** Ministère du Loisir de la Chasse et de la Pêche
- 2b. **Database contact:** Mr. Michel Gingras, Service des permis, Direction de la réglementation, de la tarification et permis, Ministère du Loisir de la Chasse et de la Pêche (MLCP), 150 boul. René Lévesque E., 4th floor, Québec, Qc G1R 4Y1
Phone: (418) 644-8374 *Facsimile:* (418) 528-0834
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - type of licence
 - fee schedule
 - number of licences
 - point of sale and agent (address, type of business)
- 3b. **Data acquisition methods:** Compilation of statistics provided by license sellers.
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** Points of sale and agents referenced by geographic code, hunting zone, administrative region.
- 3e. **Period of record:** 1978 to present.
- 3f. **Update frequency:** Ongoing.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** DGI (Ministère des Communications) central computer, IDMS, CICS.
5. **Restrictions and conditions:** Some data is confidential, see data centre contact.
6. **Price information:** On the basis of current fee structure.
7. **Corresponding printed sources:** MLCP, *Guide de l'utilisateur*, 1989, 170 pages. Annual publication, *Rapport de statistiques et d'évolution des ventes et des tarifs des permis de chasse, de pêche et de piégeage*, 50 pages.
8. **Languages:** French.
9. **User aids available:** User's guide.
10. **Keywords:** Harvesting; Recreation; Regulation; Wildlife
11. **Additional information:** None.

Outfitters System

SP-0092-E

1. **Summary description:** Information on the outfitters of Quebec, including activities covered and equipment used.
- 2a. **Responsible organization:** Ministère du Loisir de la Chasse et de la Pêche
- 2b. **Database contact:** Ms. Marie-Hélène Roy, Service des pourseeies, Direction des territoires fauniques, Ministère du Loisir de la Chasse et de la Pêche, 150 boul. René Lévesque E., 4th floor, Québec, Qc G1R 4Y1
Phone: (418) 643-5577 *Facsimile:* (418) 528-0834
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - activities covered
 - equipment (quality)
 - accommodation
 - financial data
 - highway access
 - species exploited
 - harvest, visitors

- 3b. **Data acquisition methods:** Compilation of data from a variety of sources. Administrative data. Data obtained from reports of the annual activities of owners and on-site inspection.
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** Outfitters, administrative region. RCM - hunting, fishing, trapping zone.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** Ongoing.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** DGI central computer, IDMS, SAS. PC, DBASE.
- 5. **Restrictions and conditions:** Access to Information Act. Personal information.
- 6. **Price information:** According to the current rate schedule.
- 7. **Corresponding printed sources:** None.
- 8. **Languages:** French.
- 9. **User aids available:** None.
- 10. **Keywords:** Recreation; North; Wildlife;
- 11. **Additional information:** None.

ZEC (Controlled Harvesting Zones) Information System

SIZ-0090-E

- 1. **Summary description:** Information on controlled harvesting zones (ZEC), operation (hunting and fishing), financial data, highway access, fauna-related data, fee structure.
- 2a. **Responsible organization:** Ministère du Loisir de la Chasse et de la Pêche
- 2b. **Database contact:** Mr. Jacques Boulet, Direction des territoires fauniques, Ministère du Loisir de la Chasse et de la Pêche, 150 boul. René Lévesque E., 4th floor, Québec, Qc G1R 4Y1
Phone: (418) 643-7139 *Facsimile:* (418) 528-0834
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - type of operation (hunting, fishing)
 - harvests and visits
 - financial data
 - highway access
 - fee structure
- 3b. **Data acquisition methods:** Data obtained from annual and financial reports of the organizations in question.
- 3c. **Geographic coverage:** Quebec.
- 3d. **Geographic units of measure:** ZEC, administrative region.
- 3e. **Period of record:** 1989 to present.
- 3f. **Update frequency:** Ongoing.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** DGI central computer, IDMS, SAS. PC, DBASE.
- 5. **Restrictions and conditions:** Prior authorization and consultation by the data centre contact.
- 6. **Price information:** According to current rates.
- 7. **Corresponding printed sources:** Reports published for 1985, 1990 and 1991.
- 8. **Languages:** French.
- 9. **User aids available:** None.
- 10. **Keywords:** Expenditures; Harvesting; Wildlife;
- 11. **Additional information:** None.

ONTARIO



Management Board Secretariat

Government of Ontario Information Holdings Catalogue

GIH-0049-E

1. **Summary description:** A collection of metadata describing information holdings created and maintained by the provincial ministries and agencies is being created by Management Board Secretariat. The catalogue will cover Ontario Government information holdings on environment, natural resources, mining, energy, conservation, maps, housing, education, training, health, economic development, business.
- 2a. **Responsible organization:** Management Board Secretariat
- 2b. **Database contact:** Business Improvement and Information Technology, Division, Management Board Secretariat, 56 Wellesley Street, Toronto, Ont. M7A 1Z6
Phone: (416) 327-2095 *Facsimile:* (416) 327-2088
- 2c. **Access mechanisms:** Purchase through data centre contact.
- 3a. **Parameters measured:**
 - database (official name, contact, authority for collection, descriptions of purpose, subjects covered, media, computer environment, geographic coverage)
 - approximate size of data set
 - products created from holding (brochures, maps)
- 3b. **Data acquisition methods:** Automated data collection. Data input from information holding owners.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1993 to present.
- 3f. **Update frequency:** Complete annual update of collection is planned.
- 4a. **Database storage format:** CD-ROM, diskette.
- 4b. **Database computer environment:** PC.
5. **Restrictions and conditions:** None.
6. **Price information:** Cost will be under \$300.00.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** User reference and explanatory documentation will accompany purchased CD-ROM, diskette.
10. **Keywords:** Great Lakes; History; Research
11. **Additional information:** None.



Ministry of Agriculture and Food

Agricultural Agroclimatology

AA-0074-E

1. **Summary description:** Climatic data from 15 weather stations covering southern Ontario used to examine shifts in climate patterns and support the Ministry's Adverse Weather Committee, integrated pest management program and irrigation scheduling program.
- 2a. **Responsible organization:** Ministry of Agriculture and Food
- 2b. **Database contact:** M. Wayne Roberts, Crop Technology Technician, Crop Technology, Ministry of Agriculture and Food, Guelph Agriculture Centre, Box 1030, Guelph, Ont. N1H 6N1
Phone: (519) 767-3176 *Facsimile:* (519) 837-3049
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - 18 variable measured including (air temperature, soil temperature, relative humidity, wind direction/speed, hours of sunshine)
- 3b. **Data acquisition methods:** Automated weather stations. Data are collected from the stations by remote access and by Ministry staff.
- 3c. **Geographic coverage:** 14 stations in southern Ontario.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1956 to present.
- 3f. **Update frequency:** Daily.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, custom software.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Reports are generated in AES format for Air and Soil. Daily temperatures, solar radiation, relative humidity.
8. **Languages:** English.
9. **User aids available:** Bulletin board service.
10. **Keywords:** Agriculture; Climate; Great Lakes
11. **Additional information:** None.

GIS Digital Map Coverage

GIS-0056-E

1. **Summary description:** Fourteen digitized series of base maps and derivative maps covering soil, physiography and land use information.
- 2a. **Responsible organization:** Ministry of Agriculture and Food
- 2b. **Database contact:** Mr. Bob van den Broek, GIS Coordinator, Resources and Regulations Branch, Ministry of Agriculture and Food, P.O. Box 1030, 52 Royal Road, Guelph, Ont. N1G 1G3
Phone: (519) 767-3525 *Facsimile:* (519) 767-3567
- 2c. **Access mechanisms:** Through data centre contact.
- 3a. **Parameters measured:**
 - base maps
 - climate
 - physiography
 - ground water

- Canada Land Inventory
- soil (types, erosion, groupings limitation, management, compaction)
- hydrologic groupings
- land use
- tile drainage
- roads
- hydrology

- 3b. Data acquisition methods:** Digitizer. Published soil and NTS maps are digitized.
- 3c. Geographic coverage:** Agricultural areas of southern Ontario.
- 3d. Geographic units of measure:** Township, county.
- 3e. Period of record:** 1985 to present.
- 3f. Update frequency:** Irregular (see 11).
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, ARC/INFO GIS.
- 5. Restrictions and conditions:** Written request for data (see 11).
- 6. Price information:** Price list is available in catalogue.
- 7. Corresponding printed sources:** Five GIS Technical Reports have been produced covering file structure and attribute codes for several map sets and the topic of GIS use in agriculture.
- 8. Languages:** English.
- 9. User aids available:** Catalogues describing each map series.
- 10. Keywords:** Environmental Science; Geographic Information System; Great Lakes
- 11. Additional information:**
1. The catalogue is updated as new information becomes available.
 2. Data users are required to provide a written explanation of the use of the data and to acknowledge the data source.

Organic Matter

OM-0051-E

- 1. Summary description:** A list of organic matter contents of Ontario topsoils, including texture and drainage.
- 2a. Responsible organization:** Ministry of Agriculture and Food
- 2b. Database contact:** Mr. Bob van den Broek, GIS Coordinator, Resources and Regulations Branch, Ministry of Agriculture and Food, P.O. Box 1030, 52 Royal Road, Guelph, Ont. N1G 1G3
Phone: (519) 767-3572 Facsimile: (519) 767-3567
- 2c. Access mechanisms:** Through data centre contact.
- 3a. Parameters measured:**
- percent (sand, silt, clay, calcium carbonate)
 - texture
 - drainage
 - pH
- 3b. Data acquisition methods:** Field survey. Detailed and grab samples from county soil surveys since 1975. Data from pre-1975 from county soil survey reports.
- 3c. Geographic coverage:** Approximately 7,000 Ap horizons included in the database from agricultural and forested areas within southern Ontario.
- 3d. Geographic units of measure:** Not applicable.
- 3e. Period of record:** 1976 to 1993.
- 3f. Update frequency:** Not applicable.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, DBASE IV, QUATTRO PRO.
- 5. Restrictions and conditions:** Written request for data (see 11).
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** Report in preparation.

- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Great Lakes; Pedology; Soils
- 11. Additional information:**
1. Location data and soil series name are not provided.
 2. Data users are required to acknowledge the data source and provide a copy of their final report.

Soil and Water Environmental Enhancement Program (SWEEP) Survey

SWE-0050-E

- 1. Summary description:** The database was used to document changes in tillage, conservation and cultural practices over a 5 year period within the SWEEP watershed area. Information was collected from over 1,100 producers in 1986 and 1991. The sample area was stratified by erosion potential.
- 2a. Responsible organization:** Ministry of Agriculture and Food
- 2b. Database contact:** Mr. Peter Roberts, Resource Management Specialist, Resources and Regulations Branch, Ministry of Agriculture and Food, P.O. Box 1030, 52 Royal Road, Guelph, Ont. N1H 1G3
Phone: (519) 767-3578 Facsimile: (519) 767-3567
- 2c. Access mechanisms:** Through the data centre contact.
- 3a. Parameters measured:**
- number of fields, acres, rotation, crop type
 - conservation practices
 - primary and secondary tillage practices (timing, depth, number of trips, direction, reasons for change)
 - planting equipment
 - land management practices
 - manure storage, application methods, rates, timing of manure and fertilizers
- 3b. Data acquisition methods:** Personal interview questionnaire, stratified sampling. Farmers were interviewed in 1986 and 1991.
- 3c. Geographic coverage:** 1,100 producers in 11 counties within the Lake Erie watershed.
- 3d. Geographic units of measure:** Watershed, county, township, farm unit.
- 3e. Period of record:** 1986 to 1991. Data were collected only for 1986 and 1991.
- 3f. Update frequency:** Not applicable.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, DBASE III/IV, LOTUS 123, QUATTRO PRO.
- 5. Restrictions and conditions:** Written request for data (see 11).
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** A report is in preparation.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Agriculture; Conservation; Great Lakes
- 11. Additional information:**
1. Data will be available following publication of the report.
 2. Data users are required to acknowledge the data source and provide a copy of their final report.

Survey of Pesticide Use in Ontario

SPU-0047-E

- 1. Summary description:** Estimates of active ingredients of pesticides used on field crops, fruit and vegetables in Ontario.

- 2a. Responsible organization:** Ministry of Agriculture and Food
- 2b. Database contact:** Mr. Bill McGee, Manager, Statistical Services, Policy and Programs, Ministry of Agriculture and Food, 4th Floor, 801 Bay Street, Toronto, Ont. M7A 1A3
Phone: (416) 326-3219 Facsimile: (416) 326-9892
- 2c. Access mechanisms:** Through the data centre contact.
- 3a. Parameters measured:**
- quantity of active ingredients in pesticide (kg)
 - area of field crop sprayed (ha)
- 3b. Data acquisition methods:** Survey. Questionnaires, completed by producers, are returned to the ministry.
- 3c. Geographic coverage:** Ontario.
- 3d. Geographic units of measure:** Farm, river basin, township, county.
- 3e. Period of record:** 1988 to present.
- 3f. Update frequency:** Every five years.
- 4a. Database storage format:** Tape (field crops 1988), hardcopy tables (1973, 1978, 1983, 1988), diskette (fruit and vegetables 1988).
- 4b. Database computer environment:** Mainframe (field crops 1988), PC (fruit, vegetables 1988).
- 5. Restrictions and conditions:** Aggregated estimates, not individual records, are available.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** *Survey of Pesticide Use in Ontario*, 1988 (this publication is out of print).
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Agriculture; Great Lakes; Pesticides
- 11. Additional information:** Mainframe computing is being phased out. Only information accessible by PC will be available (in aggregated form only) in the future.

Tillage 2000 - Crop Growth and Yields

T2C-0055-E

- 1. Summary description:** Five year records on 34 farms for crop growth, yields, moisture, population, pests and diseases, collected for each of five tillage treatments (moldboard, soilsave, disk no-till, ridges).
- 2a. Responsible organization:** Ministry of Agriculture and Food
- 2b. Database contact:** Mr. Doug Aspinall, Resource Management Specialist, Resources and Regulations Branch, Ministry of Agriculture and Food, P.O. Box 1030, 52 Royal Road, Guelph, Ont. N1G 1G3
Phone: (519) 767-3575 Facsimile: (519) 767-3567
- 2c. Access mechanisms:** Through data centre contact.
- 3a. Parameters measured:**
- estimated no. plants/ha
 - plant height
 - leaf counts
 - hand harvest yield and moisture
 - machine harvest yield and moisture
 - growth stage dates
 - silk and flowering dates
- 3b. Data acquisition methods:** Field survey. Field data were collected by Soil Conservation Advisors and summer assistants at permanent benchmarks.
- 3c. Geographic coverage:** Up to 705 permanent benchmarks were established on 34 farms fields within the SWEEP area of central, eastern and northern Ontario.
- 3d. Geographic units of measure:** Benchmarks referenced to permanent landscape features on field boundaries, marked with nearsurface cable sond.

- 3e. Period of record:** 1986 to 1990.
- 3f. Update frequency:** Annually for five years.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, DBASE IV, QUATTRO PRO.
- 5. Restrictions and conditions:** Written request for data (see 11).
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** Tillage 2000 final report.
- 8. Languages:** English.
- 9. User aids available:** Appendix 4 provides detailed farm, field and benchmark locations.
- 10. Keywords:** Agriculture; Crops; Great Lakes
- 11. Additional information:**
1. Data users are required to acknowledge the data source and provide a copy of their final report.
 2. Maps are available for farm, field and benchmark locations. The beginnings of transects are shown relative to permanent landscape features. Wheeled distances between benchmarks are provided.

Tillage 2000 - Economics

T2E-0053-E

- 1. Summary description:** Four year records of field history, field operations and field yields for 75 tillage treatments on 34 farms.
- 2a. Responsible organization:** Ministry of Agriculture and Food
- 2b. Database contact:** Mr. Doug Aspinall, Resource Management Specialist, Resources and Regulations Branch, Ministry of Agriculture and Food, P.O. Box 1030, 52 Royal Road, Guelph, Ont. N1G 1G3
Phone: (519) 767-3575 Facsimile: (519) 767-3567
- 2c. Access mechanisms:** Through data centre contact.
- 3a. Parameters measured:**
- crop rotation
 - type and use of equipment
 - estimated fuel consumption
 - applied herbicides and other pesticides
 - seeding rates and dates
 - type and rates of fertilizer
 - machine harvest yields
- 3b. Data acquisition methods:** Field survey. Field data were collected by Soil Conservation Advisors and summer assistants for each treatment.
- 3c. Geographic coverage:** Approximately 75 tillage treatments at the field scale level were established on 34 farms for a total of 61 tillage comparisons.
- 3d. Geographic units of measure:** Field scale plots referenced by field and farm.
- 3e. Period of record:** 1986 to 1989.
- 3f. Update frequency:** Annually for four years.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, DBASE IV, QUATTRO PRO.
- 5. Restrictions and conditions:** Written request for data (see 11).
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** Tillage 2000 final report.
- 8. Languages:** English.
- 9. User aids available:** Appendix 4 provides detailed farm, field and benchmark locations.
- 10. Keywords:** Agriculture; Crops; Great Lakes

11. Additional information:

1. Data users are required to acknowledge the data source and provide a copy of their final report.
2. Maps are available for farm, field and benchmark locations. The beginnings of transects are shown relative to permanent landscape features. Wheeled distances between benchmarks are provided.

Tillage 2000 - Residue

T2R-0054-E

1. **Summary description:** Five year records of crop residue for 34 farms following planting for moldboard, soilsave, disc, no-till and ridges following corn, cereals, soybeans. Within-row residue distributions are provided.
- 2a. **Responsible organization:** Ministry of Agriculture and Food
- 2b. **Database contact:** Mr. Doug Aspinall, Resource Management Specialist, Resources and Regulations Branch, Ministry of Agriculture and Food, P.O. Box 1030, 52 Royal Road, Guelph, Ont. N1G 1G3
Phone: (519) 767-3575 *Facsimile:* (519) 767-3567
- 2c. **Access mechanisms:** Through data centre contact.
- 3a. **Parameters measured:**
- percent crop residue at the row, quarter row and midrow positions
- 3b. **Data acquisition methods:** Knotted rope method. Field data were collected by Soil Conservation Advisors and summer assistants at permanent benchmarks.
- 3c. **Geographic coverage:** Up to 705 permanent benchmarks were established on 34 farm fields within the SWEEP area of central, eastern and northern Ontario.
- 3d. **Geographic units of measure:** Benchmarks referenced to permanent landscape features on field boundaries, marked with nearsurface cable sond.
- 3e. **Period of record:** 1986 to 1990.
- 3f. **Update frequency:** Annually for five years.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE IV, QUATTRO PRO.
5. **Restrictions and conditions:** Written request for data (see 11).
6. **Price information:** No charge.
7. **Corresponding printed sources:** Tillage 2000 final report.
8. **Languages:** English.
9. **User aids available:** Appendix 4 provides detailed farm, field and benchmark locations.
10. **Keywords:** Agriculture; Crops; Great Lakes
11. **Additional information:**
 1. Data users are required to acknowledge the data source and provide a copy of their final report.
 2. Maps are available for farm, field and benchmark location. The beginnings of transects are shown relative to permanent landscape features. Wheeled distances between benchmarks are provided.

Tillage 2000 - Soil

T2S-0052-E

1. **Summary description:** Detailed soil profile descriptions at 587 permanent benchmark positions on 28 Tillage 2000 fields.
- 2a. **Responsible organization:** Ministry of Agriculture and Food
- 2b. **Database contact:** Mr. Doug Aspinall, Resource Management Specialist, Resources and Regulations Branch, Ministry of

Agriculture and Food, P.O. Box 1030, 52 Royal Road, Guelph, Ont. N1G 1G3

Phone: (519) 767-3575 *Facsimile:* (519) 767-3567

- 2c. **Access mechanisms:** Through data centre contact.

3a. Parameters measured:

- soil (structure, horizonation, rooting depths, drainage, mode of deposition)
- matrix and mottle colours, percent organic matter, pH, estimates of air filled porosities, available water holding capacity)
- horizon (depth, dry bulk density by horizon, particle size distribution by horizon)

- 3b. **Data acquisition methods:** Gillings hydraulic sampler. A one time sampling of soil at each benchmark to a depth of approximately 1 m.

- 3c. **Geographic coverage:** Up to 705 permanent benchmarks were established on 34 farm fields within the SWEEP area of central, eastern and northern Ontario.

- 3d. **Geographic units of measure:** Benchmarks referenced to permanent landscape features on field boundaries, marked with nearsurface cable sond.

- 3e. **Period of record:** 1986 to 1990.

- 3f. **Update frequency:** None.

- 4a. **Database storage format:** Hardcopy, diskette.

- 4b. **Database computer environment:** PC, DBASE IV, QUATTRO PRO.

5. **Restrictions and conditions:** Written request for data (see 11).

6. **Price information:** No charge.

7. **Corresponding printed sources:** Tillage 2000 final report.

8. **Languages:** English.

9. **User aids available:** Appendix 4 provides detailed farm, field and benchmark locations.

10. **Keywords:** Agriculture; Great Lakes; Soils

11. Additional information:

1. Data users are required to acknowledge the data source and provide a copy of their final report.
2. Maps are available for farm, field and benchmark locations. The beginning of transects are shown relative to permanent landscape features. Wheeled distances between benchmarks are provided.

**Ministry of Health****Hospital Medical Records Institute**

HMR-0036-E

1. **Summary description:** Clinical abstracts of all inpatient hospitalizations and day surgery episodes in Ontario.
- 2a. **Responsible organization:** Ministry of Health
- 2b. **Database contact:** Mr. Maris Gailitis, Coordinator, Institutional Information, Planning and Evaluation Branch, Ministry of Health, 2nd Floor, 15 Overlea Blvd., Toronto, Ont. M4H 1A9
Phone: (416) 327-7642 *Facsimile:* (416) 327-7617
- 2c. **Access mechanisms:** Through HMRI or Ontario Ministry of Health.
- 3a. **Parameters measured:**
 - hospital number
 - patient's health number

- demographic data (age, sex, geocode)
- diagnosis (ICD9)
- surgical procedures (CCSP)
- service data
- 3b. **Data acquisition methods:** Patient hospital charts. Clinical post-discharge data are abstracted by the Health Records Department and submitted electronically or on paper.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** Patient's postal and municipality codes.
- 3e. **Period of record:** 1979 to present.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Magnetic tape.
- 4b. **Database computer environment:** AMDAHL mainframe, VMS.
- 5. **Restrictions and conditions:** Individual records are confidential.
- 6. **Price information:** Cost of retrieval charged to user.
- 7. **Corresponding printed sources:** Statistical aggregations in hard copy form.
- 8. **Languages:** English.
- 9. **User aids available:** None.
- 10. **Keywords:** Diseases; Great Lakes; Human Health
- 11. **Additional information:** There are multiple versions of internal dataset identifiers with differing formats.

Mortality and Morbidity

MM-0040-E

- 1. **Summary description:** Age-sex specific and standard rates, SMR and confidence intervals, and PYLL rates for mortality and hospital separations for 62 health disorders that include leading causes of mortality and morbidity.
- 2a. **Responsible organization:** Ministry of Health
- 2b. **Database contact:** Ms. Pat Stuckless, Manager, Issues Analysis, Information Planning and Evaluation Branch, Ministry of Health, 2nd Floor, 15 Overlea Blvd., Toronto, Ont. M4H 1A9
Phone: (416) 327-7749 *Facsimile:* (416) 327-7617
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - mortality cause
 - morbidity cause
 - age-sex specific rates
 - age-standardized rates
 - standard mortality rates and confidence intervals
 - potential years of life lost rates
- 3b. **Data acquisition methods:** Death certificates and hospital separations must be filed under the Vital Statistics Act.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** County, District Health Council, Health Planning Region.
- 3e. **Period of record:** 1986 to 1990.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, SPSS, LOTUS, DBASE IV.
- 5. **Restrictions and conditions:** Consistent with Freedom of Information legislation.
- 6. **Price information:** No charge.
- 7. **Corresponding printed sources:** Two annual publications are produced: *Public Health and Epidemiology Report of Ontario (PHERO)*; *Chief Medical Officer of Health Reports - Ontario*.
- 8. **Languages:** English.

- 9. **User aids available:** None.
- 10. **Keywords:** Great Lakes; Health; Human Health
- 11. **Additional information:** There is a 2 to 3 year lag between the year of data collection and data entry.

Significant Observation Summaries in Environmental Bacteriology

SOS-0002-E

- 1. **Summary description:** Frequency of samples which exceed provincial bacteriological guidelines is monitored by 13 public health laboratories.
- 2a. **Responsible organization:** Ministry of Health
- 2b. **Database contact:** Mr. Michael H. Brodsky, Chief, Environmental Bacteriology and, Microbiological Support Service, Laboratory Services Branch, Ministry of Health, 81 Resources Road, Etobicoke, Ont. M9P 3T1
Phone: (416) 235-5917 *Facsimile:* (416) 235-5951
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - sample (location, date, coliforms (drinking water only), escherichia coli)
 - background count (MF - drinking water only)
 - potable water (MF count per 100 ml tested)
 - recreational water (MF count per 100 ml, 10 ml tested)
- 3b. **Data acquisition methods:** Surveillance. Data collected and compiled by regional laboratories on a monthly basis.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** Water samples are referenced by general type of source and nature of request.
- 3e. **Period of record:** 1985 to present.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Diskettes for individual lab data. Hard disk and diskette for compiled data.
- 4b. **Database computer environment:** PC.
- 5. **Restrictions and conditions:** None.
- 6. **Price information:** No charge.
- 7. **Corresponding printed sources:** None.
- 8. **Languages:** English.
- 9. **User aids available:** Manuals to describe sampling procedures and analytical methods.
- 10. **Keywords:** Biota; Great Lakes; Human Health
- 11. **Additional information:**
 - 1. Private drinking water samples may be submitted directly or through local health units. All other samples submitted by health units or other authorized agencies.
 - 2. This database does not contain lot and concession locations, although individual Health Units may have this information.



Ministry of Labour

Merged Support System Radiation Protection Service

MES-0005-E

- 1. **Summary description:** Contains measurements of environmental radiation sources from Ministry of Environment and

Energy and Ministry of Labour survey areas. Contains inventory of ionizing (X-ray) equipment and non-ionizing devices from worksites such as plants or companies, mines and construction sites. Indicates the number of orders issued on field visits to sites containing ionizing or non-ionizing radiation devices and indicates compliance status.

2a. Responsible organization: Ministry of Labour

2b. Database contact: Ms. Joan Berry, Manager, Application Development, Information, Technology and Systems Branch, Ministry of Labour, 3rd Floor, 400 University Avenue, Toronto, Ont. M7A 1T7

Phone: (416) 326-7133 Facsimile: (416) 326-7138

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- X-ray inventory
- ionizing and non-ionizing radiation (hazard, company/plant, type of radiation source, total number of radiation sources, number of orders issued during inspection and compliance status)
- radiation protection laboratory (sample date, description, duration, concentration or measurement, hazard, company/plant)

3b. Data acquisition methods: Field survey. Field visit to company/plant site or site of radioactive spill.

3c. Geographic coverage: Ontario.

3d. Geographic units of measure: Sites referenced by city and detailed source location.

3e. Period of record: Ionizing/non-ionizing radiation data: 1988 to present.

3f. Update frequency: Daily.

4a. Database storage format: Hard disk.

4b. Database computer environment: DEC VAX, FOCUS.

5. Restrictions and conditions: None.

6. Price information: Not established.

7. Corresponding printed sources: The Ministry of Labour provides environmental analysis reports to the Ministry of the Environment. The former also provides investigation reports of X-ray installation or non-ionizing radiation concerns to the company or agency.

8. Languages: English.

9. User aids available: User aids include: *Standard Industrial Classification*; *Standard Geographic Codes*; *Ontario Regulation 554/86*; *Health and Safety Legislation*.

10. Keywords: Great Lakes; Human Health; Radiation

11. Additional information: None.



Ministry of Natural Resources

Air Photo Library

APL-0062-E

1. Summary description: This is the repository for MNR (Ministry of Natural Resources) air photo original negatives and the service protects the originals while providing MNR and external clients with a variety of print images upon demand.

2a. Responsible organization: Ministry of Natural Resources

2b. Database contact: Mr. Ken Robinson, Natural Resources Information Branch, Ministry of Natural Resources, 90 Sheppard Avenue East, North York, Ont. M2N 3A1

Phone: (416) 314-1365 Facsimile: (416) 314-8482

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- photograph (date, number, scale, flight line)
- photograph type (colour, black and white)
- topographic map

3b. Data acquisition methods: Aerial photography. Air photographs taken by contractors.

3c. Geographic coverage: Ontario.

3d. Geographic units of measure: Photographs referenced by number, flight line and topographic map.

3e. Period of record: 1931 to present.

3f. Update frequency: Continually.

4a. Database storage format: Hardcopy.

4b. Database computer environment: Not applicable.

5. Restrictions and conditions: Photographs are not loaned out.

6. Price information: Fees will be charged.

7. Corresponding printed sources: None.

8. Languages: English.

9. User aids available: Air photograph indices.

10. Keywords: Great Lakes; Imagery; Remote Sensing

11. Additional information:

1. The air photographs have been collected for various interpretive programs and at various scales - 1:50 000, 1:30 000, 1:15 840, 1:8 000, 1:6 000.

2. The products for internal clients are not routinely processed by the NRIC.

Aquatic Invertebrate Data

AID-0063-E

1. Summary description: Aquatic invertebrates and associated habitat descriptions collected to Aquatic Habitat Inventory standards. This is largely stream and large river data (not many lakes). The data support scientific analysis, fisheries management and research.

2a. Responsible organization: Ministry of Natural Resources

2b. Database contact: Mr. George Gale, Senior Development Planner, Natural Resources Information Branch, Ministry of Natural Resources, 4th Floor, 90 Sheppard Avenue East, North York, Ont. M2N 3A1

Phone: (416) 314-1320 Facsimile: (416) 314-1336

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- invertebrates (water bugs, aquatic insects)
- aquatic community type
- sampling (location, date)
- sampler
- other (chemical, physical, biological and habitat parameters)

3b. Data acquisition methods: Field surveys carried out through the Aquatic Habitat Inventory.

3c. Geographic coverage: Ontario.

3d. Geographic units of measure: Latitude and longitude.

3e. Period of record: 1972 to 1990.

3f. Update frequency: Irregularly.

4a. Database storage format: Hardcopy.

4b. Database computer environment: Not applicable.

5. Restrictions and conditions: None.

6. Price information: Administrative charges only.

7. Corresponding printed sources: None.

8. Languages: English.

9. User aids available: None.

10. Keywords: Insects; Rivers; Wildlife

11. **Additional information:** An estimated 300,000 specimen records have been digitized. It is reputed by some to be the most comprehensive data series of its kind.

Atlas of [Species Name] Lakes in Ontario

ALO-0064-E

1. **Summary description:** The atlases contain listings of all lakes known to contain the specific species (walleye, lake trout, largemouth bass, smallmouth bass, muskellunge, northern pike).
- 2a. **Responsible organization:** Ministry of Natural Resources
- 2b. **Database contact:** Mr. Fergus McNeil, OFIS Database Administrator, Land and Resource Information Branch, Ministry of Natural Resources, P.O. Box 5000, Maple, Ont. L6A 1S9
Phone: (905) 832-7292 *Facsimile:* (905) 832-7177
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - fish species (walleye, lake trout, largemouth bass, smallmouth bass, muskellunge, northern pike)
 - source (natural, introduced, unknown)
 - lake name, location, surface size
 - survey status
- 3b. **Data acquisition methods:** Field survey. Aquatic Habitat Inventory carried out by Ministry staff.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** Township, lakes referenced by watershed code, latitude and longitude.
- 3e. **Period of record:** 1987 to present.
- 3f. **Update frequency:** Not yet determined.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, FOXPRO.
5. **Restrictions and conditions:** None.
6. **Price information:** Administrative charges only.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** Aquatic Habitat Inventory survey guidelines.
10. **Keywords:** Biology; Fish; Great Lakes
11. **Additional information:** When first completed, copies of the Atlases were distributed to all district offices, fisheries assessment units, the corporate library and selected individuals.

Biological and Conservation Data System

BCD-0083-E

1. **Summary description:** A composite system that includes 30 related databases on rare plants, animals and plant communities. It is used to catalogue information on the location and status of these features as an aid in sustainable land management planning and in directing research and inventory efforts.
- 2a. **Responsible organization:** Ministry of Natural Resources
- 2b. **Database contact:** Mr. Ian Kirkham, Coordinator, Natural Heritage Information Centre, Ministry of Natural Resources, P.O. Box 7000, Peterborough, Ont. K9J 8M5
Phone: (705) 745-8307 *Facsimile:* (705) 740-1243
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - elements (plant/animal species, plant communities)
 - location (site history, characteristics)
 - managed areas (contacts, data sources, monitoring)
 - legal land parcels and ownership
 - taxonomy

- element (status ranks, ecological and biological characteristics, stewardship abstracts)

- 3b. **Data acquisition methods:** Field work, literature review. Data collected by Ministry staff and contractors.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** Species and communities referenced by UTM coordinates, latitude and longitude, lot and concession.
- 3e. **Period of record:** 1989 to present.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, ADVANCED REVOLUTIONS, DBASE, LOTUS 123.
5. **Restrictions and conditions:** Data on sensitive elements may be restricted.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Carolinian Canada Conservation Data Centre Program.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Endangered species; Great Lakes; Wildlife
11. **Additional information:** A major GIS component is planned in the development of this database.

Black Bear Research

BBR-0065-E

1. **Summary description:** To create a predictive population model for habitat types to aid in the determination of allowable harvest. Two component studies are being done: *Boreal Deciduous Ecotonal Black Bear* (1969 to 1980); *Boreal Northern Forest, Chapleau area* (1980's to present).
- 2a. **Responsible organization:** Ministry of Natural Resources
- 2b. **Database contact:** Mr. Martyn Obard, Biologist, Predator Unit, Research, Science and Technology Branch, Ministry of Natural Resources, 10401 Dufferin Street, Maple, Ont. L6A 1S9
Phone: (905) 832-7132 *Facsimile:* (905) 832-7149
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - population (dynamics, movement)
 - harvest
 - habitat
 - food availability
 - timber management effectiveness
- 3b. **Data acquisition methods:** Field work. Field investigations carried out by Ministry staff.
- 3c. **Geographic coverage:** Northern Ontario.
- 3d. **Geographic units of measure:** Grid reference.
- 3e. **Period of record:** 1969 to present.
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, PARADOX.
5. **Restrictions and conditions:** Some restrictions may apply.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Published materials can be obtained through the Ministry of Natural Resources research library.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Great Lakes; Habitats; Wildlife
11. **Additional information:** This database was created as a custom-research project. These data were collected for specific research purposes and are sometimes made available through

the research scientist. There will be provisions and cautions included in any data sharing due to the nature of the data in question.

Crown Land Survey Records

CLS-0070-E

- 1. Summary description:** This is the sole source of original survey information on Provincial Crown lands and contains the originals of the field notebooks, diaries, survey reports and plans. This documentation assists in the orderly administration of the Crown's holdings (parks, land dispositions).
- 2a. Responsible organization:** Ministry of Natural Resources
- 2b. Database contact:** Mr. J. Gary Sherman, Coordinator, Land Surveys, Natural Resources Information Branch, Ministry of Natural Resources, 90 Sheppard Avenue East, North York, Ont. M2N 3A1
Phone: (416) 314-1285 *Facsimile:* (416) 314-1338
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - surveys (surveyors, date)
 - plans (original township plans, provincial park plans, crown land plans)
 - survey (field notes, instructions)
- 3b. Data acquisition methods:** Documents. Material obtained through internal and external correspondence, land surveys.
- 3c. Geographic coverage:** Ontario.
- 3d. Geographic units of measure:** Surveys referenced by township, county.
- 3e. Period of record:** 1763 to present.
- 3f. Update frequency:** This holding is updated on a transactional basis.
- 4a. Database storage format:** Hardcopy.
- 4b. Database computer environment:** Not applicable.
- 5. Restrictions and conditions:** None.
- 6. Price information:** Fees will be charged.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** Documents are listed in the Land Index System database.
- 10. Keywords:** Geography; Great Lakes; Land use
- 11. Additional information:**
 1. Historically, the Crown is the repository for the original survey records of all alienated Crown land under the Surveys Act. The Surveyor General is the only body who/that can certify a plan as the original. The plans must be under his/her custody.
 2. Yearly volume is increasing by about 600 records per annum.

Deer Winter Feeding

DWF-0071-E

- 1. Summary description:** To describe the diet and methods used to feed deer in emergency or supplemental situations. Contents include food, feeder types, techniques, costs and benefits and descriptions of deer behaviour at the feeding stations. The field study component was completed in 1990.
- 2a. Responsible organization:** Ministry of Natural Resources
- 2b. Database contact:** Mr. Dennis Voight, Field Studies Scientist, Research, Science and Technology Branch, Ministry of Natural Resources, 10401 Dufferin Street, Maple, Ont. L6A 1S9
Phone: (905) 832-7247 *Facsimile:* (905) 832-7149
- 2c. Access mechanisms:** Through the responsible organization.

3a. Parameters measured:

- food
- feeder types
- feeding (behaviour, techniques)
- costs and benefits

3b. Data acquisition methods: Field studies. Monitoring conducted by Ministry staff using internal and external sources (see 11).

3c. Geographic coverage: Ontario.

3d. Geographic units of measure: UTM grid.

3e. Period of record: 1982 to 1990.

3f. Update frequency: Annually.

4a. Database storage format: Hardcopy, diskette.

4b. Database computer environment: PC, QUATTRO PRO.

5. Restrictions and conditions: Some restrictions may apply.

6. Price information: No charge.

7. Corresponding printed sources: Published reports are available from the MNR (Ministry of Natural Resources) Corporate library.

8. Languages: English.

9. User aids available: None.

10. Keywords: Great Lakes; Mammals; Wildlife

11. Additional information:

1. This collection is part of the research data gathered through the cooperative deer studies done by: MNR; Ontario Federation of Anglers and Hunters; Conservation Authorities; Universities of Guelph, Michigan, Laurentian, Queens, York and Northern Ontario; and tourist outfitters.
2. These data were collected for specific research purposes and are sometimes made available through the research scientist/manager.

Digital Topographic Database

DTD-0073-E

- 1. Summary description:** To provide a standardized digital map base of the province for other ministries and outside agencies. In contracting out the data collection and compilation to private industry, a center for excellence in GIS has been established in Ontario. This represents the digital portion of the Ontario Base Map program.
- 2a. Responsible organization:** Ministry of Natural Resources
- 2b. Database contact:** Mr. John Naulls, Technologist, Topographic Mapping and Database, Project, Natural Resources Information Branch, Ministry of Natural Resources, 4th Floor, 90 Sheppard Avenue East, North York, Ont. M2N 3A1
Phone: (416) 314-2607 *Facsimile:* (416) 314-1339
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - OBM 1:20 000, OBM 1:10 000
 - GIS parameters (UTM coordinates, feature codes, geographic coordinates, geographic features, geographic names, digital terrain model)
- 3b. Data acquisition methods:** Aerial photographs (1978-1992). Aerial photograph interpretation by contractors.
- 3c. Geographic coverage:** Ontario.
- 3d. Geographic units of measure:** OBM, UTM coordinates (about 50 percent of the province has been digitized).
- 3e. Period of record:** 1976 to present.
- 3f. Update frequency:** Continually as required.
- 4a. Database storage format:** Diskette, tape.
- 4b. Database computer environment:** UNIX workstation, ARC/INFO GIS.
- 5. Restrictions and conditions:** None.
- 6. Price information:** Fees will be charged.

7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Geographic Information System; Geography; Great Lakes
11. **Additional information:** Approval of Cabinet submission in 1976 led to the creation of a geographic referencing system for the province.

Fish Community Synthesis Database

FCS-0074-E

1. **Summary description:** To provide Synthesis working groups (or other interested parties) with summarized data on fisheries surveys in the province. Data include survey descriptions, fishing effort, catch statistics and population attributes. First created for a synthesis of provincial information to better manage lake trout fish communities. Percid (walleye) communities now included.
- 2a. **Responsible organization:** Ministry of Natural Resources
- 2b. **Database contact:** Mr. Rob Korver, Aquatic Ecosystems Modeller, Aquatic Ecology, Section, Aquatic Ecosystems Branch, Policy Division, Ministry of Natural Resources, Box 5000, Maple, Ont. L6A 1S9
Phone: (905) 832-7130 *Facsimile:* (905) 832-7149
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - creel commercial and index fishing survey results
 - fish community population attributes
 - lake location (district, area)
 - survey date and description
- 3b. **Data acquisition methods:** Field surveys, historical reports. Surveys carried out by Ministry staff (Fisheries Assessment Unit district areas).
- 3c. **Geographic coverage:** Ontario (data largely from waterbodies containing lake trout and walleye).
- 3d. **Geographic units of measure:** Waterbody referenced by name, code or UTM coordinates.
- 3e. **Period of record:** 1940 to present.
- 3f. **Update frequency:** Sporadic, as required for synthesis exercises.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, FOXPRO.
5. **Restrictions and conditions:** None.
6. **Price information:** Administrative charges only.
7. **Corresponding printed sources:** Various reports on lake trout; additional reports on percid species planned.
8. **Languages:** English.
9. **User aids available:** System description and data dictionary.
10. **Keywords:** Fish; Great Lakes; Wildlife
11. **Additional information:**
 1. This database is under development.
 2. Many of the data are derived from FISHARC, the provincial data archiving system, managed by OFIS. It is hoped that parts of the FCSB will help to prototype FISHLIB, a planned provincial repository for summarized information on aquatic ecosystems.

Fish Population Analysis System

FPA-0078-E

1. **Summary description:** Scientific assessment of closed stream fish populations using the depletion/removal method of

analysis as outlined by Zippin, Leslie, Carle and Strub. A summary database of results by fish species, group and location is retained and available for reporting.

- 2a. **Responsible organization:** Ministry of Natural Resources
- 2b. **Database contact:** Senior Development Planner, Natural Resources Information Branch, Ministry of Natural Resources, 90 Sheppard Avenue East, North York, Ont. M2N 3A1
Phone: (416) 314-1320 *Facsimile:* (416) 314-1336
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - Zippin Analysis, Carle and Strub Analysis, Leslie Analysis
 - stream (assessment, productivity)
 - closed fish populations
 - fish species
- 3b. **Data acquisition methods:** Field surveys. Data input by departmental staff.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** Stream location.
- 3e. **Period of record:** 1984 to 1989.
- 3f. **Update frequency:** Irregularly.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** Mainframe, VMS, APL, SAS.
5. **Restrictions and conditions:** None.
6. **Price information:** Administrative charges only.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Biology; Fish; Great Lakes
11. **Additional information:** This database has been a major information source in Southern Ontario. Approximately 30,000 to 40,000 summary records are still maintained. The summary data should be available through FISHLIB.

Fish Species Distribution Data System

FSD-0079-E

1. **Summary description:** Province-wide fish species distribution data. This collection supports scientific analysis, fisheries management and research.
- 2a. **Responsible organization:** Ministry of Natural Resources
- 2b. **Database contact:** Mr. George Gale, Senior Development Planner, Natural Resources Information Branch, Ministry of Natural Resources, 4th Floor, 90 Sheppard Avenue East, North York, Ont. M2N 3A1
Phone: (416) 314-1320 *Facsimile:* (416) 314-1336
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - fish (species (150), species code, rare and endangered species)
 - site (location, name, watershed)
 - date
 - data source code
- 3b. **Data acquisition methods:** Field survey. Data provided by the Aquatic Habitat Inventory, Royal Ontario Museum, Canadian Museum of Nature.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1900 to present.
- 3f. **Update frequency:** Irregularly.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** Mainframe, VMS, SAS, PC, SAS.

5. **Restrictions and conditions:** None.
6. **Price information:** Administrative charges only.
7. **Corresponding printed sources:** Many reports.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Fish; Watersheds; Wildlife
11. **Additional information:** The collection consists of over 140,000 records province-wide. It can be melded into a GIS, based on locational data.

Fish Stocking

FS-0080-E

1. **Summary description:** Database intended to support policy development and maintain partnership with Great Lakes Commission.
- 2a. **Responsible organization:** Ministry of Natural Resources
- 2b. **Database contact:** Mr. Peter Hulsman, Provincial Assessment Program Development, Coordinator, Aquatic Ecosystems Branch, Ministry of Natural Resources, P.O. Box 7000, 380 Armour Road, Peterborough, Ont. K9J 8M5
Phone: (705) 740-1531 *Facsimile:* (705) 740-1536
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - fish (species, age, size, development stage)
 - genetic source
 - year stock originated
 - clipping and tagging details
 - stocking location
 - action date
 - conditions during action
- 3b. **Data acquisition methods:** Fish Stocking into Public Waters forms. Fish culture and stocking carried out by Ministry and outside sources.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** Source waterbody, UTM grid to nearest 100 m.
- 3e. **Period of record:** 1940 to 1991.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, FOXBASE.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Limited summary details in annual Ministry reports.
8. **Languages:** English.
9. **User aids available:** Manuals and guidelines.
10. **Keywords:** Fish; Great Lakes; Wildlife
11. **Additional information:**
 1. Database phased out in 1991. Data from 1940 to 1973 to go to Ontario Fish Information System (OFIS) FISHARC, 1974 to 1991 will be retrofitted to FISHNET.
 2. Districts are expected to input and maintain their own data in future with provincial 'rollup' to OFIS annually.

Forest Resource Inventory (FRI) Reports

FRI-0084-E

1. **Summary description:** These are historical reports on the state of the forestry resource in Ontario. Originally used for forest management planning, they are currently used for research and development, statistical work, historical references and

comparisons. They are of interest to Ministry staff, and resource or forest oriented research projects.

- 2a. **Responsible organization:** Ministry of Natural Resources
- 2b. **Database contact:** Database Administrator (Forestry), Natural Resource Inventory Section, Natural Resources Information Branch, Ministry of Natural Resources, 70 Foster Drive, Sault Ste. Marie, Ont. P6A 6V5
Phone: (705) 945-6757 *Facsimile:* (705) 945-6638
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - classified forested land (age class, land ownership)
 - regional forest types
 - wood volumes (conifers, hardwoods)
 - sawlogs versus pulpwood
 - allowable cut
 - resource utilization
- 3b. **Data acquisition methods:** Survey reports. Ontario Forest Resources Inventory.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** Reports geographically referenced by MNR (Ministry of Natural Resources) district.
- 3e. **Period of record:** 1946 to 1958. This holding was superseded by the Ontario Forest Resources Inventory.
- 3f. **Update frequency:** Not applicable.
- 4a. **Database storage format:** Holding contains manual records.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Hard copy booklets are available at MNR districts.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Forestry; Great Lakes; Trees
11. **Additional information:** None.

Historical Forest Resource Inventory (FRI) Stand and Composite Maps

HSC-0086-E

1. **Summary description:** Maintenance and retention of historical Forest Resource Inventory maps will allow for the analysis of temporal changes in the general condition of the forest.
- 2a. **Responsible organization:** Ministry of Natural Resources
- 2b. **Database contact:** Database Administrator (Forestry), Natural Resources Inventory Section, Natural Resources Information Branch, Ministry of Natural Resources, 70 Foster Drive, Sault Ste. Marie, Ont. P6A 6V5
Phone: (705) 945-6757 *Facsimile:* (705) 945-6638
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - forest (stand type, species composition)
- 3b. **Data acquisition methods:** Aerial photographs, Ontario Base Maps. Map and photo interpretation verified by field surveys.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** Forest stands referenced by UTM coordinates.
- 3e. **Period of record:** 1990 to present.
- 3f. **Update frequency:** Periodically.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.

7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Forestry; Great Lakes; Trees
11. **Additional information:** Due to corporate difficulties, the collection held by the Sault St. Marie office is only a partial representation of the maps available. The pre-1988 maps are assumed to be held in Archives, Toronto. Also, various maps are believed to be held by Natural Resources Information Centre, Toronto. A final repository for this holding is to be found.

Lake Inventory Database

LID-0105-E

1. **Summary description:** This is a collection of the biological, chemical and physical data on lakes, surveyed to provincial Aquatic Habitat Inventory program standards. It supports the scientific analysis and management of the fisheries resource.
- 2a. **Responsible organization:** Ministry of Natural Resources
- 2b. **Database contact:** Mr. George Gale, Senior Development Planner, Natural Resources Information Branch, Ministry of Natural Resources, 4th Floor, 90 Sheppard Avenue East, North York, Ont. M2N 3A1
Phone: (416) 314-1320 *Facsimile:* (416) 314-1336
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - lakes (name, location, bathymetry, aquatic habitat, resorts, cottages)
 - morphoedaphic index (MEI)
 - fish (species, community, within lake species distribution)
 - chemistry
 - limnology
- 3b. **Data acquisition methods:** Field surveys. Data provided through the Aquatic Habitat Inventory.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** Lakes referenced by latitude and longitude.
- 3e. **Period of record:** 1957 to 1986. Major revisions in 1994. Phasing out - 1994.
- 3f. **Update frequency:** Irregularly.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** Mainframe, COBOL, FORTRAN, SYS 2000.
5. **Restrictions and conditions:** None.
6. **Price information:** Administrative charges only.
7. **Corresponding printed sources:** Many reports.
8. **Languages:** English.
9. **User aids available:** Manual of Instructions, Aquatic Habitat Inventory Surveys.
10. **Keywords:** Hydrology; Lakes; Water quality
11. **Additional information:** Approximately 10,000 lakes are inventoried with standardized information for each. This database will eventually be combined with other fisheries data in the FISHLIB portion of the OFIS database (in preparation).

Land Index System Database

LIS-0106-E

1. **Summary description:** This is an inventory of all lands disposed of by the Ontario Crown; a list of all land surveys of Crown Land, and the current approved holders of Crown leases and Licences of Occupation. This provides a record of Crown land status to MNR (Ministry of Natural Resources) and MNDM field and main offices.

- 2a. **Responsible organization:** Ministry of Natural Resources
- 2b. **Database contact:** Mr. J. Gary Sherman, Coordinator, Crown Land Registry, Natural Resources Information Branch, Ministry of Natural Resources, 90 Sheppard Avenue East, North York, Ont. M2N 3A1
Phone: (416) 314-1384 *Facsimile:* (416) 314-1397
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - land (status, dispositions, files, grants, grant types, title, crown land surveys)
 - date
 - reservations
 - mining (claims, locations)
- 3b. **Data acquisition methods:** Documents, reports. Material obtained from internal and external sources.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** Documents referenced by township, lot and concession, unorganized areas and territorial districts.
- 3e. **Period of record:** 1793 to present.
- 3f. **Update frequency:** This holding is updated on a transactional basis.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** VAX, ORACLE.
5. **Restrictions and conditions:** None.
6. **Price information:** Administrative charges only.
7. **Corresponding printed sources:** Various reports are produced.
8. **Languages:** English.
9. **User aids available:** Index.
10. **Keywords:** Geography; Great Lakes; Land use
11. **Additional information:** None.

Large River Inventory Data

LRI-0122-E

1. **Summary description:** The purpose of the collection is to support the scientific analysis and management of Aquatic and Fisheries resources. The collection consists of biological, chemical and physical data on Ontario's large rivers, surveyed to provincial Aquatic Habitat Inventory (AHI) program standards.
- 2a. **Responsible organization:** Ministry of Natural Resources
- 2b. **Database contact:** Mr. Jack Imhoff, Natural Resources Information Branch, Ministry of Natural Resources, Box 5000, Maple, Ont. L6A 1S9
Phone: (905) 832-7173 *Facsimile:* (905) 832-7149
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - river (name, location)
 - fish species
 - within river species distribution
 - morphometrics
 - fisheries inventory
 - aquatic habitat type
 - fish community
- 3b. **Data acquisition methods:** Field surveys. Data provided through the Aquatic Habitat Inventory.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** River location.
- 3e. **Period of record:** 1981 to 1987.
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.

6. **Price information:** Administrative charges only.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** Manual of Instructions, Aquatic Habitat Inventory Surveys.
10. **Keywords:** Biota; Ecology; Rivers
11. **Additional information:** Approximately twelve large rivers [standardized data] have been surveyed and documented to date.

Large Scale Photography

LSP-0107-E

1. **Summary description:** A collection of 1:1 200 black and white aerial photographs used to document the condition of forest strata in terms of structural characteristics.
- 2a. **Responsible organization:** Ministry of Natural Resources
- 2b. **Database contact:** Mr. Frank Addante, Development Specialist, Natural Resource Inventory, Section, Natural Resources Information Branch, Ministry of Natural Resources, Suite 400, 70 Foster Drive, Sault Ste. Marie, Ont. P6A 6V5
Phone: (705) 945-6679 Facsimile: (705) 945-6638
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - photograph (date, flight line, roll number, photo number)
 - forest (tree species, stem density, basal area, diameter distribution, height, crown area, wood volume)
- 3b. **Data acquisition methods:** Field survey and photogrammetry. Aerial Photography by contractor; measurements and data entry done in house by contractor.
- 3c. **Geographic coverage:** Northern Ontario.
- 3d. **Geographic units of measure:** Data referenced by forest management unit.
- 3e. **Period of record:** 1986 to present.
- 3f. **Update frequency:** Not applicable.
- 4a. **Database storage format:** Photographic prints, diskette.
- 4b. **Database computer environment:** PC, custom software.
5. **Restrictions and conditions:** None.
6. **Price information:** To be negotiated.
7. **Corresponding printed sources:** Reports of summary data for each management unit.
8. **Languages:** English.
9. **User aids available:** Procedures manual.
10. **Keywords:** Great Lakes; Remote Sensing; Trees
11. **Additional information:** Aerial photographs obtained from fixed-wing aircraft.

Localized Remote Sensing Thematic Maps

LRS-0123-E

1. **Summary description:** To map natural resource entities for inventory and monitoring purposes and/or fill in gaps in operational resource mapping cycles. These demonstration projects, done either for Operations Branch or external partners, test remote sensing tools and techniques for use in everyday situations and duties.
- 2a. **Responsible organization:** Ministry of Natural Resources
- 2b. **Database contact:** Coordinator, Remote Sensing Application, Development, Natural Resources Information Branch, Ministry of Natural Resources, 90 Sheppard Avenue East, North York, Ont. M2N 3A1
Phone: (416) 314-1323 Facsimile: (416) 314-1337
- 2c. **Access mechanisms:** Through the responsible organization.

- 3a. **Parameters measured:**
 - Ontario Peatlands Inventory
 - land (cover, use)
 - forest (cover, fuels)
 - impact analysis
 - surficial geology
 - habitat (wildlife, waterfowl)
 - terrain mapping
 - water (bodies, quality)
 - agriculture (soils)
 - urban land use change
- 3b. **Data acquisition methods:** Field survey. Satellite and airborne imagery, field acquisition.
- 3c. **Geographic coverage:** Coverage is on a localized, subject based area.
- 3d. **Geographic units of measure:** UTM coordinates.
- 3e. **Period of record:** 1973 to present.
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** Hardware/software interface varies based on the project.
5. **Restrictions and conditions:** None.
6. **Price information:** None.
7. **Corresponding printed sources:** Descriptions and paper map indexes are available.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Geographic Information System; Great Lakes; Remote Sensing
11. **Additional information:** Extensive coverage is available for some resources such as Peatlands.

Ministry of Natural Resources Land Files

MNR-0124-E

1. **Summary description:** This file collection represents the correspondence and history relating to specific land dispositions in Ontario. The contents can contain applications, requisitions, legal opinions, survey information as well as orders withdrawing land from disposition.
- 2a. **Responsible organization:** Ministry of Natural Resources
- 2b. **Database contact:** Mr. J. Gary Sherman, Coordinator, Crown Land Registry, Natural Resources Information Branch, Ministry of Natural Resources, 90 Sheppard Avenue East, North York, Ont. M2N 3A1
Phone: (416) 314-1384 Facsimile: (416) 314-1338
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - land dispositions
 - correspondence
 - title
- 3b. **Data acquisition methods:** Documents, reports. Material obtained from internal and external correspondence.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** Documents referenced by township, lot and concession, territorial district.
- 3e. **Period of record:** 1915 to present.
- 3f. **Update frequency:** This holding is updated on a transactional basis.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** Administrative charges and cost per copy.
7. **Corresponding printed sources:** None.

8. **Languages:** English.
9. **User aids available:** All land files are listed in the Land Index System Database.
10. **Keywords:** Geography; Great Lakes; Land use
11. **Additional information:** None.

Ontario Forest Resources Inventory (FRI)

OFR-0111-E

1. **Summary description:** The Forest Resource Inventory is an inventory of Ontario's forested lands. It includes species compositions, age, height, various classifications for trees, forest and land. It provides a picture or approximation of existing forest conditions and a base for decision making and planning for a variety of resource managers.
- 2a. **Responsible organization:** Ministry of Natural Resources
- 2b. **Database contact:** Database Administrator (Forestry), Natural Resources Inventory Section, Natural Resources Information Branch, Ministry of Natural Resources, 70 Foster Drive, Sault Ste. Marie, Ont. P6A 6V5
Phone: (705) 945-6757 *Facsimile:* (705) 945-6638
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - forest (stands, height, age class, boundaries, species composition)
 - site class
 - graphic symbology
 - land ownership
- 3b. **Data acquisition methods:** Aerial photographs, Ontario Base Maps. Maps and photo interpretation verified by field surveys.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** UTM coordinates.
- 3e. **Period of record:** 1946 to present. Database underwent major revisions in 1987.
- 3f. **Update frequency:** The holding information is replaced every 20 years.
- 4a. **Database storage format:** Hardcopy, tape, network.
- 4b. **Database computer environment:** Mini computer. PC, GIS software.
5. **Restrictions and conditions:** None.
6. **Price information:** Administrative charges only.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** Data Dictionary.
10. **Keywords:** Forestry; Great Lakes; Trees; Geographic Information System
11. **Additional information:**
 1. In 1987, the FRI changed from a manual system to a digital one. On-line access to the data is limited to read only abilities. Time coverage of the data reflects the oldest current data set.
 2. The negatives of the aerial photographs used to generate this database are held by the Ministry in North York.

Ontario Land Inventory (OLI)

OLI-0103-E

1. **Summary description:** This is a series of maps, at various scales (1:15 840, 1:50 000, 1:250 000), describing and classifying areas for their capability for timber use, wildlife use, recreation use and shoreline recreation use.
- 2a. **Responsible organization:** Ministry of Natural Resources
- 2b. **Database contact:** Ms. Tracey J. Ellis, Lands Applications Specialist, Natural Resources Information Branch, Ministry of

Natural Resources, 4th Floor, 90 Sheppard Avenue East, North York, Ont. M2N 3A1

Phone: (416) 314-1319 *Facsimile:* (416) 314-1337

- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - land classification (soil type, soil depth, topography)
 - capability (timber use, recreation use)
 - shoreline recreational use capability (wet beach slope material, backshore slope and material)
- 3b. **Data acquisition methods:** Aerial photographs, ground and aerial surveys. Land classified through interpretation of physical site characteristics.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** Maps referenced by NTS sheet.
- 3e. **Period of record:** 1966 to present.
- 3f. **Update frequency:** Not applicable.
- 4a. **Database storage format:** Hardcopy maps.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** *A Ready Reference - Ontario Land Inventory* (a guide to the reading and understanding of the maps produced by the Ontario Land Inventory).
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Geography; Great Lakes; Land use
11. **Additional information:** Since Ontario Land Inventory mapping, analysis and evaluation is based on physical features of the land, the classifications do not go out-of-date.

Ontario Wildlife Information System

OWI-0104-E

1. **Summary description:** To provide field biologists with the most current biological, environmental, status and historical information on Ontario wildlife to support knowledge transfer to clients, management and planners.
- 2a. **Responsible organization:** Ministry of Natural Resources
- 2b. **Database contact:** Ms. Fiona McKay, Data Management Biologist, Terrestrial Ecosystems Branch, Ministry of Natural Resources, 6th Floor, 90 Sheppard Avenue East, North York, Ont. M2N 3A1
Phone: (416) 314-1041 *Facsimile:* (416) 314-1049
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - life history
 - habitat
 - animal-plant interaction
 - food availability
 - management practices
 - reference database
 - taxonomy
- 3b. **Data acquisition methods:** Biological journals, books, technical papers, reports. Data input by Ministry staff.
- 3c. **Geographic coverage:** Ontario and species range beyond the province.
- 3d. **Geographic units of measure:** MNR (Ministry of Natural Resources) district.
- 3e. **Period of record:** 1983 to present. Database implemented in 1993. Some references data date back to historic records.
- 3f. **Update frequency:** Every two years.
- 4a. **Database storage format:** Hardcopy, diskette.

- 4b. **Database computer environment:** PC, ADVANCED REVELATION.
5. **Restrictions and conditions:** Limited distribution to district/area staff when complete.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Ecology; Great Lakes; Mammals
11. **Additional information:** This is an information system and compilation for which the data are still being verified.

Polar Bear Research Data

PBR-0102-E

1. **Summary description:** There were 3 components to this collection: annual aerial surveys of Hudson Bay/James Bay coast, spring productivity and live capture, marking and movement studies. They provide background information for management decisions.
- 2a. **Responsible organization:** Ministry of Natural Resources
- 2b. **Database contact:** Mr. Martyn Obard, Biologist, Predator Unit, Southern Terrestrial Ecosystems Research, Research, Science and Technology Branch, Ministry of Natural Resources, 10401 Dufferin Street, Maple, Ont. L6A 1S9
Phone: (905) 832-7132 *Facsimile:* (905) 832-7149
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - polar bear (weight, age, size, survey date, location, animal movement, rated reproduction)
 - population size
- 3b. **Data acquisition methods:** Field work. Data were collected by Ministry staff through live trapping and aerial surveys.
- 3c. **Geographic coverage:** Hudson Bay and James Bay coastline.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1963 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, SAS.
5. **Restrictions and conditions:** Some restrictions may apply.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Several internal reports.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Mammals; North; Wildlife
11. **Additional information:**
 1. The International Polar Bear Agreement (1973) stipulates that Canada will do management and research on the Canadian Polar Bear population. Such agreements are held up as goals for the protection and management of other species.
 2. The Moosonee district is continuing aerial data collection. Canadian Wildlife Service and other provinces act in cooperation for these studies.

Provincial Snow and Winter Severity Database

PSW-0100-E

1. **Summary description:** Monitoring information from weekly winter snow depth and chill severity is used to support wildlife management decisions (primarily deer and moose).
- 2a. **Responsible organization:** Ministry of Natural Resources
- 2b. **Database contact:** Mr. Dennis Voight, Field Studies Scientist, Southern Terrestrial Ecosystems Research, Research, Science and Technology Branch, Ministry of Natural Resources, 10401 Dufferin Street, Maple, Ont. L6A 1S9
Phone: (905) 832-7247 *Facsimile:* (905) 832-7149
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - date
 - location
 - snow crust
 - temperature indexed to chill
 - weekly snow depth
 - winter severity index
 - snow depth index
- 3b. **Data acquisition methods:** Field surveys. Province-wide snow courses.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** Snow stations referenced by MNR (Ministry of Natural Resources) district.
- 3e. **Period of record:** 1952 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE, FOXBASE, ODIS.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Ontario Hydro and Environment Canada are both supplied yearly with summary reports.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Great Lakes; Precipitation; Wildlife
11. **Additional information:**
 1. Major revisions were incorporated in 1986.
 2. A customized software package, ODIS, is used to create reports and graphs.

Rabies Research Data and Specimen Collection

RRD-0099-E

1. **Summary description:** A series of data sets covering bait and vaccine testing by target/non target species, antibody reactions, capture/recapture, captive experiments, tetracycline baiting and population data on skunks, foxes and raccoons. The data are used to control/eliminate rabies from wildlife in Ontario.
- 2a. **Responsible organization:** Ministry of Natural Resources
- 2b. **Database contact:** Mr. Charles MacInnes, Coordinator, Rabies Program, Ministry of Natural Resources, 10401 Dufferin Street, Maple, Ont. L6A 1S9
Phone: (905) 832-7110 *Facsimile:* (905) 832-7149
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - baiting
 - serum (vaccines for rabies)
 - population (species, teeth)
 - trappers
 - radio telemetry
- 3b. **Data acquisition methods:** Field survey, laboratory analysis. Data collected by MNR (Ministry of Natural Resources) staff and external sources.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** UTM coordinates.
- 3e. **Period of record:** 1975 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.

- 4b. **Database computer environment:** PC, SAS, AUTOCAD, PARADOX, FOXPRO.
5. **Restrictions and conditions:** Some restrictions may apply.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Findings are normally published in a newsletter and the Rabies Reporter.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Diseases; Great Lakes; Wildlife
11. **Additional information:** None.

Satellite Imagery

SI-0098-E

1. **Summary description:** To provide customer service and support to projects, through the provision of information about locational detail, availability of satellite imagery and data ordering requirements.
- 2a. **Responsible organization:** Ministry of Natural Resources
- 2b. **Database contact:** Mr. Doug Poletto, Coordinator, Remote Sensing Application, Development, Natural Resources Information Branch, Ministry of Natural Resources, 4th Floor, 90 Sheppard Avenue East, North York, Ont. M2N 3A1
Phone: (416) 314-1323 *Facsimile:* (416) 314-1337
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - image (date, location, bands)
- 3b. **Data acquisition methods:** Satellite images. Imagery purchased from other agencies.
- 3c. **Geographic coverage:** Ontario at scales of 1:1 000 000 to 1:500 000 (hard copies).
- 3d. **Geographic units of measure:** Images referenced by latitude and longitude.
- 3e. **Period of record:** 1972 to present.
- 3f. **Update frequency:** Continually, as projects require purchase of new imagery.
- 4a. **Database storage format:** Hardcopy, microfiche, 9 track magnetic tape, 8mm cartridge tape.
- 4b. **Database computer environment:** Mini computer, VMS, DIX/PCI.
5. **Restrictions and conditions:** None.
6. **Price information:** Not established.
7. **Corresponding printed sources:** Project reports.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Great Lakes; Remote Sensing; Satellite
11. **Additional information:** The Provincial Remote Sensing Office is mandated, through Management Board, to maintain and provide access to remote sensing imagery for the province.

Simply Everything About Information Collected Here

SEA-0097-E

1. **Summary description:** To provide meta data (information about information) on all MNR (Ministry of Natural Resources) information holdings for use in information management, development of marketing analysis, initial INRIS data catalogue. Contents include identification details, responsibility and authority indicators, purpose and contents, accessibility information and contacts.
- 2a. **Responsible organization:** Ministry of Natural Resources

- 2b. **Database contact:** Manager, Information Marketing, Ministry of Natural Resources, 90 Sheppard Avenue East, North York, Ont. M2N 3A1

Phone: (416) 314-1606 *Facsimile:* (416) 314-1496

- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - meta data
 - information management
 - marketing analysis
 - INRIS
 - information (holdings, partners, sources)
- 3b. **Data acquisition methods:** Survey. Questionnaires completed by MNR staff.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** Various (depends on database entry).
- 3e. **Period of record:** 1992 to present.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE IV.
5. **Restrictions and conditions:** None.
6. **Price information:** Not established.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Environmental Science; Extraction; Great Lakes
11. **Additional information:**
 1. The information from SEARCH may be used in future to partially complete the MNR portion of Treasury Board's Information Holding Catalogue.
 2. The final hardware and software configuration have yet to be determined.

Stream Inventory Data

SID-0127-E

1. **Summary description:** The purpose of the collection is to provide support for the scientific analysis and management of aquatic and fisheries resources. The collection consists of biological, chemical and physical data on streams, surveyed to provincial Aquatic Habitat Inventory Program (AHI) standards.
- 2a. **Responsible organization:** Ministry of Natural Resources
- 2b. **Database contact:** Mr. George Gale, Senior Development Planner, Natural Resources and Information Branch, Ministry of Natural Resources, 4th Floor, 90 Sheppard Avenue, North York, Ont. M2N 3A1
Phone: (416) 314-1320 *Facsimile:* (416) 314-1336
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - streams (name, location, aquatic habitat)
 - fish species
 - morphometrics
 - biodiversity
 - chemical data
 - other limnological parameters
- 3b. **Data acquisition methods:** Field work. Data provided through the Aquatic Habitat Inventory.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** Streams referenced by latitude and longitude.
- 3e. **Period of record:** 1962 to 1986.
- 3f. **Update frequency:** Irregularly.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** Not applicable.

5. **Restrictions and conditions:** None.
6. **Price information:** Administrative charges only.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** *Manual of Instructions, Aquatic Habitat Inventory Surveys.*
10. **Keywords:** Fish; Hydrology; Rivers
11. **Additional information:** Approximately 1,000 streams have been surveyed and documented to date using standardized methods and data rules.

Survey of Recreational Fishing in Ontario

SRF-0096-E

1. **Summary description:** A data collection on the effort, harvest and socio-economic detail of sport fishing in Ontario that is used to support policy decisions.
- 2a. **Responsible organization:** Ministry of Natural Resources
- 2b. **Database contact:** Mr. Douglass Legg, Economist, Resource Stewardship and Development Branch, Ministry of Natural Resources, 5th Floor, 90 Sheppard Avenue East, North York, Ont. M2N 3A1
Phone: (416) 314-1159 *Facsimile:* (416) 314-2468
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - effort and harvest
 - angling activity
 - boat ownership
 - socio-economic details
 - investment and expenditures
 - angling decision making
- 3b. **Data acquisition methods:** Ministry receives completed questionnaires from the Canadian public and foreigners.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** Summary data referenced by MNR (Ministry of Natural Resources) region.
- 3e. **Period of record:** 1975 to 1990.
- 3f. **Update frequency:** Every 5 years.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, SPSS.
5. **Restrictions and conditions:** None.
6. **Price information:** Administrative charges only.
7. **Corresponding printed sources:** *Recreational Fishing in Ontario*, 1990 (Bulletin and Fact Sheet).
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Fisheries; Great Lakes; Harvesting
11. **Additional information:** In 1970, agreement between the Provinces and Territories, led to the parallel collection of sport fishing data across Canada to be compiled and analysed provincially as well as federally.

Watershed Maps

WM-0129-E

1. **Summary description:** This is a collection of maps outlining watershed boundaries at a scale of 1:250 000. These aid in fisheries, habitat and watershed management. MNR (Ministry of Natural Resources) is the holder of this information and supplies other agencies. This data are taken to the 4th level of watershed.
- 2a. **Responsible organization:** Ministry of Natural Resources

- 2b. **Database contact:** Mr. George Gale, Senior Development Planner, Natural Resources Information Branch, Ministry of Natural Resources, 4th Floor, 90 Sheppard Avenue East, North York, Ont. M2N 3A1
Phone: (416) 314-1320 *Facsimile:* (416) 314-1336
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - watershed
 - drainage boundary (outflow, name)
- 3b. **Data acquisition methods:** Topographic maps. Watershed boundaries delineated according to NTS topographic map contours.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** Watershed.
- 3e. **Period of record:** 1975 to present.
- 3f. **Update frequency:** Not applicable.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** Administrative charges only.
7. **Corresponding printed sources:** Many reports.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Hydrography; Water; Watersheds
11. **Additional information:** None.

Wildlife Health Research Data

WHR-0095-E

1. **Summary description:** Data on parasites and toxins in wildlife that are used to study the impact of wildlife disease on human health, domestic livestock, pets and wildlife populations themselves and to advise public on ways to minimize the impacts.
- 2a. **Responsible organization:** Ministry of Natural Resources
- 2b. **Database contact:** Dr. Ed Addison, Research Scientist, Research, Science and Technology Branch, Ministry of Natural Resources, 10401 Dufferin Street, Maple, Ont. L6A 1S9
Phone: (905) 832-7106 *Facsimile:* (905) 832-7149
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - moose (growth, blood physiology, behaviour, pathology, habitat selection)
 - ticks (survival, growth, population dynamics)
 - mink, coyote and wolf parasites
 - bear tissue parasites
 - mink, otter (mercury in tissue)
 - Great Lakes eagle distribution
- 3b. **Data acquisition methods:** Field and laboratory studies. Ministry field work and controlled experiments in facilities.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** Data referenced by place name, MNR (Ministry of Natural Resources) district, township, latitude and longitude.
- 3e. **Period of record:** 1960 to present.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, PRO-CITE.
5. **Restrictions and conditions:** Some restrictions may apply.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Many publications have been prepared (see contact).
8. **Languages:** English.

9. **User aids available:** None.
10. **Keywords:** Great Lakes; Health; Wildlife
11. **Additional information:** None.

Wildlife Radio Tracking Data

WRT-0094-E

1. **Summary description:** Wildlife tracking data for 6 species used to determine location and behaviour of wildlife and provide better information for resource management decision making.
- 2a. **Responsible organization:** Ministry of Natural Resources
- 2b. **Database contact:** Mr. Dennis Voight, Field Studies Scientist, Southern Terrestrial Ecosystems Research, Research, Science and Technology Branch, Ministry of Natural Resources, 10401 Dufferin Street, Maple, Ont. L6A 1S9
Phone: (905) 832-7247 *Facsimile:* (905) 832-7149
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - species (white-tailed deer, red fox, striped skunk, raccoon, coyote)
 - radio tracking/telemetry (data, time, locations, weather data, activity)
- 3b. **Data acquisition methods:** Field surveys. Field experiments in radio telemetry and wildlife.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** UTM coordinates.
- 3e. **Period of record:** 1972 to 1990.
- 3f. **Update frequency:** Not applicable.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, QUATTRO PRO.
5. **Restrictions and conditions:** Some restrictions may apply.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Published reports are available from the MNR (Ministry of Natural Resources) Corporate library.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Great Lakes; Mammals; Wildlife
11. **Additional information:**
 1. This collection is part of the research data gathered through the cooperative deer studies done by MNR, Ontario Federation of Anglers and Hunters, Conservation Authorities, Universities of Guelph, Michigan, Laurentian, Queens and York and Northern Ontario and Tourist Outfitters.
 2. Deer tracking ceased in 1990; fox tracking ceased in the 1980's.

- descriptive records (age, sex, species, location, habitat, condition)
 - species (bear, otter, mink, wolf, coyote, beaver, marten, fisher)
- 3b. **Data acquisition methods:** Bounties, field surveys. Records and specimens supplied by trappers and through Ministry research.
 - 3c. **Geographic coverage:** Ontario.
 - 3d. **Geographic units of measure:** Place name, trap-line.
 - 3e. **Period of record:** Under development, implementation sometime in 1994.
 - 3f. **Update frequency:** Irregularly.
 - 4a. **Database storage format:** Specimens dry; records on hardcopy, diskette.
 - 4b. **Database computer environment:** PC, REFLEX.
 5. **Restrictions and conditions:** None.
 6. **Price information:** No charge.
 7. **Corresponding printed sources:** Several publications have been prepared (see contact).
 8. **Languages:** English.
 9. **User aids available:** None.
 10. **Keywords:** Great Lakes; Health; Wildlife
 11. **Additional information:** Plans are to computerize the necropsy records using the Royal Ontario Museum Standards and matching their DBASE files.

Wolf Research Data and Specimen Collection

WRD-0090-E

1. **Summary description:** Data from a skull collection and two field surveys used to determine the effect of wolves on the deer/prey population and also examines wolf population and movement.
- 2a. **Responsible organization:** Ministry of Natural Resources
- 2b. **Database contact:** Mr. Mark Garscadden, Manager, Southern Terrestrial Ecosystems Research, Research, Science and Technology Branch, Ministry of Natural Resources, 10401 Dufferin Street, Maple, Ont. L6A 1S9
Phone: (905) 832-7133 *Facsimile:* (905) 832-7149
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - wolf (sex, age, location, population dynamics, reproduction, movement, parasites, prey, hair identification)
 - radio telemetry
 - food availability
- 3b. **Data acquisition methods:** Field survey. Field work, bounty program and analysis of collected specimens.
- 3c. **Geographic coverage:** Algonquin Park, Parry Sound area.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1958 to 1969.
- 3f. **Update frequency:** Not applicable.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** Some restrictions may apply.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Most of the information from these studies has been published, see data centre contact for the Large Mammal Bibliography.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Great Lakes; Mammals; Wildlife
11. **Additional information:** These data were collected for specific research purposes and are sometimes made available through the research scientist/manager.

Wildlife Research Necropsy Records and Specimen Collections

WRN-0093-E

1. **Summary description:** To maintain records and specimens used in research to provide historical biological data.
- 2a. **Responsible organization:** Ministry of Natural Resources
- 2b. **Database contact:** Mr. Em Addison, Laboratory Technician, Research, Science and Technology Branch, Ministry of Natural Resources, 10401 Dufferin Street, Maple, Ont. L6A 1S9
Phone: (416) 832-7106 *Facsimile:* (416) 832-7149
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - taxonomy
 - skulls and teeth



Ministry of Northern Development and Mines

Mineral Deposit Inventory

MDI-0075-E

1. **Summary description:** 15,000 records providing skeletal information regarding mineral deposit names, location, size, references to maps, publications.
- 2a. **Responsible organization:** Ministry of Northern Development and Mines
- 2b. **Database contact:** Mr. G. Merlino, Manager, Data Services Section, Client Services Branch, Mines and Minerals, Division, Ministry of Northern Development and Mines, Willet Green Miller Centre, 933 Ramsey Lake Road, Sudbury, Ont. P3E 6B5
Phone: (705) 670-5750 *Facsimile:* (705) 670-5754
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - mineral deposit (name, location, size of deposit, occurrence, prospect, producer, past producer, minerals, commodities)
 - references to related publications
- 3b. **Data acquisition methods:** Field survey. Inventory records submitted by contractors and Ministry staff.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** Latitude and longitude, UTM coordinates.
- 3e. **Period of record:** Early 1970's to present.
- 3f. **Update frequency:** Irregularly.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC, DBASE.
5. **Restrictions and conditions:** None.
6. **Price information:** MDI Version 1.0, 1992 release, \$100.00 plus PST/GST.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** Manual available with product.
10. **Keywords:** Great Lakes; Minerals; Mining
11. **Additional information:** None.

Single Master Aeromagnetic Data, ERLIS Data Set 1

SMA-0089-E

1. **Summary description:** Aeromagnetic data covering the province of Ontario.
- 2a. **Responsible organization:** Ministry of Northern Development and Mines
- 2b. **Database contact:** Mr. G. Merlino, Manager, Data Services Section, Mines and Minerals Division, Ministry of Northern Development and Mines, Willet Green Miller Centre, 933 Ramsey Lake Road, Sudbury, Ont. P3E 6B5
Phone: (705) 670-5750 *Facsimile:* (705) 670-5754
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - anomalies (magnetic, electromagnetic, gravity)

- 3b. **Data acquisition methods:** Field survey. Data collected from planes and helicopters by the Ministry and the Geological Survey of Canada.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** UTM coordinates, latitude and longitude.
- 3e. **Period of record:** 1947 to 1987.
- 3f. **Update frequency:** See 11.
- 4a. **Database storage format:** CD-ROM, 8mm tape.
- 4b. **Database computer environment:** PC, custom software.
5. **Restrictions and conditions:** None.
6. **Price information:** See 11.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Geodesy; Great Lakes; Minerals
11. **Additional information:**
 1. A second set of data with a different level of precision will be collected by this Ministry in the near future.
 2. A complete Data Set on CD-ROM or 8mm data tape (SY-PLUS format) is available for \$1,000.00. Customer-defined data subsets are also available: per grid point (\$0.0015); per profile point (\$0.008); per recorded data (digital) (\$0.002). Prices do not include shipping, handling, media cost, or applicable taxes.



Ministry of the Environment and Energy

Acidic Precipitation in Ontario Study

API-0033-E

1. **Summary description:** Air and precipitation samples are collected regularly at fixed monitoring sites across the province to quantify spatial and temporal trends for atmospheric loadings of acidic substances and trace metals.
- 2a. **Responsible organization:** Ministry of the Environment and Energy
- 2b. **Database contact:** Dr. Neville Reid, Supervisor, Special Studies and Research Management Unit, Air Resources Branch, Ministry of the Environment and Energy, 125 Resources Road, Etobicoke, Ont. M9P 3V6
Phone: (416) 235-6155 *Facsimile:* (416) 235-6235
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - daily precipitation (sample volume, conductivity, calcium, magnesium, sodium, potassium, pH, acidity, chloride, nitrate, sulphate, ammonium)
 - daily air (ammonium, nitrate, sulphate, nitric acid, sulphur dioxide)
 - cumulative precipitation (same as daily plus; phosphorous, Kjeldahl nitrogen, copper, nickel, lead, zinc, cadmium, iron, manganese, aluminum, vanadium, arsenic)
 - cumulative air (same as daily excluding ammonium, plus; sodium, potassium, chloride, calcium, magnesium, aluminum, arsenic, cadmium, copper, iron, manganese, nickel, lead, vanadium, zinc)
- 3b. **Data acquisition methods:** Monitoring equipment: daily (wet-only/sequential filter pack samplers); cumulative (wet-only/low volume filter pack samplers). Cumulative precipitation samples

are collected over a 28-day period as are cumulative air samples. Daily precipitation and air samples are collected over a 24-hour period.

- 3c. **Geographic coverage:** Daily precipitation and air samples collected at one site in Ontario (Dorset). Cumulative precipitation and air samples collected at 17 sites in Ontario and northeastern Minnesota.
- 3d. **Geographic units of measure:** Sampling sites referenced by UTM grid, latitude and longitude.
- 3e. **Period of record:** 1981 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette (various file standards; ASCII; EBCDIC).
- 4b. **Database computer environment:** PC, CLIPPER, SAS. IRMA link to mainframe.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Various conference proceedings, journal articles and internal technical reports have used the contents of the database. A publications list is available from the responsible organization.
8. **Languages:** English.
9. **User aids available:** Hardcopy describing dataset format is issued with storage media. Monitoring network overview document is available from the responsible organization.
10. **Keywords:** Acid precipitation; Contaminants; Great Lakes
11. **Additional information:** Both daily and cumulative monitoring networks have diminished in size since their inception. For instance, the daily monitoring network consisted of 16 sampling sites during 1981-1990, while the cumulative network consisted of 39 sampling sites during the same period. Data from these terminated sites is also available.

Air Quality Information System

AQU-0046-E

1. **Summary description:** Concentrations of gaseous and particulate air contaminants as well as meteorological data for sampling sites across Ontario.
- 2a. **Responsible organization:** Ministry of the Environment and Energy
- 2b. **Database contact:** Mr. Bob Radell, Air Quality and Meteorology Section, Environmental Monitoring and Reporting Branch, Ministry of the Environment and Energy, 125 Resources Road, Etobicoke, Ont. M9P 3V6
Phone: (416) 235-5763 *Facsimile:* (416) 235-6037
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - 15 monitored continuously (sulphur dioxide, carbon monoxide, oxides of nitrogen, nitric oxide, nitrogen dioxide, total reduced sulphur, total hydrocarbon, reactive hydrocarbon, ozone, suspended particles as coefficient of haze, air pollution index, air quality index, wind speed and direction, ambient temperature)
 - 16 monitored daily (total suspended particulate, inhalable particulate, Pb, Cr, Cd, Cu, Fe, Mn, Ni, V, An, Cl⁻, sulphate, nitrate, carbon, radiation)
 - 14 monitored monthly (total dustfall, Cd, Cr, Cu, Fe, Mn, Na, Ni, V, Pb, Zn, sulphate, nitrate, fluoridation rate)
- 3b. **Data acquisition methods:** Air monitoring instruments connected to data-loggers. Data-loggers transmit data from sampling site through datapac to a central VAX computer. Monthly, the data are downloaded to an IBM mainframe.
- 3c. **Geographic coverage:** Across Ontario with increased coverage in large urban areas.

- 3d. **Geographic units of measure:** Sites referenced by UTM coordinates, latitude and longitude.
- 3e. **Period of record:** Early 1950's to present.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Hardcopy, diskette, tape.
- 4b. **Database computer environment:** IBM mainframe, VAX 780.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Annual reports on air quality in Ontario and State of the Environment Report.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Air quality; Contaminants; Great Lakes
11. **Additional information:** None.

Dendrochronology Study of Sugar Maple and Red Pine

DSS-0069-E

1. **Summary description:** Assessment of tree growth characteristics for sugar maple and red pine across a pollution gradient in Ontario.
- 2a. **Responsible organization:** Ministry of the Environment and Energy
- 2b. **Database contact:** Mr. Ron Pearson, Manager, Phytotoxicology Section, Standards Development Branch, Ministry of the Environment and Energy, 135 St. Clair Avenue West, Toronto, Ont. M4V 1L5
Phone: (416) 323-5102 *Facsimile:* (416) 323-5166
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - tree ring widths (whole tree bores, increment cores)
 - soil (texture, exchangeable Ca, Mg, K, Al, cation exchange capacity, SO₄²⁻, organic carbon)
- 3b. **Data acquisition methods:** Field survey. Laboratory tree ring increment measurement (TRIM) and chemical analysis.
- 3c. **Geographic coverage:** 54 sites across south-central Ontario for sugar maple. 35 plots across southern portion of Ontario for red pine.
- 3d. **Geographic units of measure:** Sites referenced by UTM coordinates to nearest 100 m.
- 3e. **Period of record:** 1985 to 1990.
- 3f. **Update frequency:** Single investigation.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, LOTUS 123.
5. **Restrictions and conditions:** Not established.
6. **Price information:** Not established.
7. **Corresponding printed sources:** Numerous reports.
8. **Languages:** English.
9. **User aids available:** Manual for operation of TRIM system and field manual prepared for Section staff.
10. **Keywords:** Botany; Great Lakes; Trees
11. **Additional information:** Study is part of terrestrial program of Acidic Precipitation in Ontario Study (APIOS). Foliage samples collected and processed from study trees have been archived but were not analyzed.

Dilution

DIL-0073-E

1. **Summary description:** Dilution calculations for municipal and industrial discharges under low flow conditions.

- 2a. Responsible organization:** Ministry of the Environment and Energy
- 2b. Database contact:** Mr. Alan Bacchus, Watershed Management Section, Science and Technology Branch, Ministry of the Environment and Energy, 2 St. Clair Avenue West, Toronto, Ont. M4V 1L5
Phone: (416) 323-5208 *Facsimile:* (416) 323-5031
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- about 100 fields including (company name, number, location, receiving stream, effluent average daily flow, sector, discharger, drainage area, stream flow, gauge number, gauge drainage area, 20XQY low flows, discharge type, dilution ratio)
- 3b. Data acquisition methods:** Flow data collection is legally required. Data obtained from MOEE (Ministry of the Environment and Energy) industrial monitoring information system, utility monitoring information system and industrial/municipal annual discharge reports.
- 3c. Geographic coverage:** Ontario.
- 3d. Geographic units of measure:** UTM grid, latitude and longitude.
- 3e. Period of record:** 1986 to present.
- 3f. Update frequency:** Bi-annually, even-numbered years.
- 4a. Database storage format:** Diskette.
- 4b. Database computer environment:** PC, DBASE.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** Ontario active hydrometric stations, Low flows characteristics in Ontario, Regional analysis of low flow characteristics, industrial and municipal annual discharge reports.
- 8. Languages:** English.
- 9. User aids available:** Dilution software application Version 2.0 User's Guide.
- 10. Keywords:** Contaminants; Effluents; Watersheds
- 11. Additional information:** This database is related to the Low-flow database held by the Ministry.

Drinking Water Surveillance Program

DWS-0016-E

- 1. Summary description:** Database contains water quality and treatment data for over 100 drinking water systems throughout Ontario. Currently this database contains approximately 3 million results.
- 2a. Responsible organization:** Ministry of the Environment and Energy
- 2b. Database contact:** Mr. Hugh Graham, Drinking Water Surveillance Section, Environmental Monitoring and Reporting Branch, Ministry of the Environment and Energy, 125 Resources Road, Etobicoke, Ont. M9P 3V6
Phone: (416) 235-6228 *Facsimile:* (416) 235-6235
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- 180 parameters including:
 - microbiological (4)
 - general chemical (24)
 - metals (24)
 - organic chemicals including PAH, pesticides, volatiles (131)
 - radionuclides (7)
 - chemical dosage
 - flow rates
 - field parameters (chlorine residuals, pH, turbidity)
 - plant processes

- 3b. Data acquisition methods:** Regular monitoring. Computer link to MOEE (Ministry of the Environment and Energy) analytical laboratory via Ontario mainframe computer system.
- 3c. Geographic coverage:** Ontario.
- 3d. Geographic units of measure:** UTM grid.
- 3e. Period of record:** 1986 to present. Period of record is site-specific. More locations are added each year.
- 3f. Update frequency:** 2 to 12 times per year. Database updated as results arrive.
- 4a. Database storage format:** Hard disk, tape.
- 4b. Database computer environment:** PC, FOCUS PLUS (multi user). Mainframe, FOCUS.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Great Lakes; Human Health; Water
- 11. Additional information:** Results monitored on raw water source, treated drinking water and water in the distribution system.

Early Diagnosis Project (Forests)

EDP-0068-E

- 1. Summary description:** Tree foliage representing a known gradient of acidic precipitation and ozone concentrations was subjected to biochemical tests to determine the feasibility of early diagnosis of tree decline.
- 2a. Responsible organization:** Ministry of the Environment and Energy
- 2b. Database contact:** Mr. Ron Pearson, Manager, Phytotoxicology Section, Standards Development Branch, Ministry of the Environment and Energy, 135 St. Clair Avenue West, Toronto, Ont. M4V 1L5
Phone: (416) 323-5102 *Facsimile:* (416) 323-5166
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- species (sugar maple, white pine and Norway spruce)
 - elements (Cu, Ni, Pb, Zn, Fe, P, N, K, Ca, Cd, Cr, Mg, Mo, Na, V)
 - chlorophyll a, chlorophyll b
 - B-carotene, lutein, antheraxanthin, violaxanthin
 - contact angle (of water droplets)
 - Hartel Turbidity Test
- 3b. Data acquisition methods:** Field sampling followed by laboratory analysis. Field work conducted by Ministry staff.
- 3c. Geographic coverage:** Samples were collected at 16 locations across the southern part of Ontario.
- 3d. Geographic units of measure:** Sites referenced by UTM coordinates to nearest 100 m.
- 3e. Period of record:** 1988 to 1989.
- 3f. Update frequency:** Single event study.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, LOTUS 123.
- 5. Restrictions and conditions:** Not established.
- 6. Price information:** Not established.
- 7. Corresponding printed sources:** Numerous reports.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Acid precipitation; Botany; Great Lakes
- 11. Additional information:** None.

Great Lakes Toxics Deposition

GLT-0043-E

1. **Summary description:** Air and precipitation samples are collected regularly at fixed monitoring sites to quantify atmospheric loadings of target PCBs, PAHs, organochlorines, pesticides and metals into the Canadian Great Lakes.
- 2a. **Responsible organization:** Ministry of the Environment and Energy
- 2b. **Database contact:** Mr. Michael Shackleton, Science and Technology Branch, Ministry of the Environment and Energy, 2 St. Clair Avenue West, Toronto, Ont. M4V 1L5
Phone: (416) 323-5153 *Facsimile:* (416) 323-5021
- 2c. **Access mechanisms:** Verbal or written request through investigator.
- 3a. **Parameters measured:**
 - isomer-specific and total PCBs
 - DDT (plus metabolites and degradation products)
 - hexachlorobenzene
 - hexachlorocyclohexanes
 - chlordanes, oxychlordanes, mirex, heptachlor, aldrin
 - metals (Pb, Cd, As, Mn)
 - PAHs
- 3b. **Data acquisition methods:** High-volume air sampler; wet-only precipitation collector. Organics and metals in precipitation and metals in air are sampled for a 28-day period every 4th Tuesday (0800h). Organics in air are sampled for a 96-hr period every other week, starting Monday (0800h).
- 3c. **Geographic coverage:** Organics in precipitation and air for 7 sites and metals in precipitation and air for 17 sites across Ontario and northeastern Minnesota.
- 3d. **Geographic units of measure:** Sampling sites referenced by UTM grid to the nearest 100 m, latitude and longitude to the nearest second.
- 3e. **Period of record:** 1981 to present. Metals: 1981 - present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, SAS, DBASE III. IRMA-link to mainframe.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Various conference proceedings, journal articles and internal reports have used the contents of the database. A publications list is available from the technical investigator.
8. **Languages:** English.
9. **User aids available:** Hardcopy describing dataset format is issued with storage media. Monitoring network overview document is available from investigator.
10. **Keywords:** Air quality; Contaminants; Great Lakes
11. **Additional information:** None.

Great Lakes Water Quality

GLW-0015-E

1. **Summary description:** Quantitative information on physical/chemical characteristics of water, sediment and biota in the Great Lakes and connecting channels.
- 2a. **Responsible organization:** Ministry of the Environment and Energy
- 2b. **Database contact:** Mr. Praul Desai, Environmental Information and Systems Section, Environmental Monitoring Branch, Ministry of the Environment and Energy, 40 St. Clair Avenue West, Toronto, Ont. M4B 1P5
Phone: (416) 314-7866 *Facsimile:* (416) 314-7880

- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - organics
 - inorganics
 - nutrients
 - physical (air/water temperature, pH, wind force/direction, conductivity, weather conditions, current speed/direction)
 - sediment (depth, particle size, suspended solids)
 - biota (zoobenthos, epibenthos, infauna)
- 3b. **Data acquisition methods:** Field survey. Ministry staff conduct sampling.
- 3c. **Geographic coverage:** Areas of concern in the Great Lakes and connecting channels.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1970 to present.
- 3f. **Update frequency:** Every two weeks.
- 4a. **Database storage format:** Tape. Mainframe downloads to personal computers.
- 4b. **Database computer environment:** Mainframe, JCL. PC, SAS, SPSS, LOTUS, FORTRAN, STATGRAPHICS, SURFER and FREELANCE.
5. **Restrictions and conditions:** Access through Ministry staff.
6. **Price information:** Dependent on size of data request.
7. **Corresponding printed sources:** Summary data are used in Ministry reports and publications.
8. **Languages:** English.
9. **User aids available:** SIS procedures manuals, cruise plans, support file descriptions.
10. **Keywords:** Contaminants; Great Lakes; Water quality
11. **Additional information:** None.

Hardwood Decline Survey

HDS-0060-E

1. **Summary description:** Permanent plots consisting of 100 trees each dominated by sugar maple, monitored for tree health. Soil and foliage of maple and yellow birch collected for chemical analysis from 35 plots for each species.
- 2a. **Responsible organization:** Ministry of the Environment and Energy
- 2b. **Database contact:** Mr. Ron Pearson, Manager, Phytotoxicology Section, Standards Development Branch, Ministry of the Environment and Energy, 135 St. Clair Avenue West, Toronto, Ont. M4V 1L5
Phone: (416) 323-5102 *Facsimile:* (416) 323-5166
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - tree condition
 - decline index
 - foliar and soil N, P, K, Ca, Mg, S, SO₄²⁻, Cu, Fe, Mn, Na, Zn, Al, Ni, Pb, pH
 - soil texture, CEC, inorganic carbon, organic carbon
- 3b. **Data acquisition methods:** Field survey followed by laboratory analysis. Data collection and analysis by Ministry staff and contractors.
- 3c. **Geographic coverage:** 110 plots selected across Ontario representing maple hardwood forests.
- 3d. **Geographic units of measure:** Sites referenced by UTM grid to nearest 100 m.
- 3e. **Period of record:** 1985 to present.
- 3f. **Update frequency:** Annually or irregularly.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC, LOTUS 123.
5. **Restrictions and conditions:** Not established.

6. **Price information:** Not established.
7. **Corresponding printed sources:** Reports summarizing tree crown condition and foliage and soil chemistry prepared.
8. **Languages:** English.
9. **User aids available:** Field manual.
10. **Keywords:** Ecology; Great Lakes; Trees
11. **Additional information:** Plots were converted to fixed area basis in 1991 for ingrowth studies. For the majority of plots, the numbers of trees increased above the initial 100 trees. Supporting data for some sites include sap chemistry and toxic organic compounds in soil.

Historical Foliar Sulphur Resampling

HFS-0061-E

1. **Summary description:** Foliage from red and white pine, trembling aspen and paper birch trees were collected for chemical analysis 45 years after an earlier study.
- 2a. **Responsible organization:** Ministry of the Environment and Energy
- 2b. **Database contact:** Mr. Ron Pearson, Manager, Phytotoxicology Section, Standards Development Branch, Ministry of the Environment and Energy, 135 St. Clair Avenue West, Toronto, Ont. M4V 1L5
Phone: (416) 323-5102 *Facsimile:* (416) 323-5166
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - tree species
 - 1944 (only foliar sulphur)
 - 1989 (foliar S, Cu, Ni, Pb, Zn, Fe, Mn, P, N, Al, Ca, Cd, Cl⁻, Co, Cr, K, Mg, Mo, Na, Sr, V)
- 3b. **Data acquisition methods:** Field survey followed by laboratory analysis. Data collection carried out by Ministry staff.
- 3c. **Geographic coverage:** 111 sites centred at Sudbury but extending as far as southern Ontario.
- 3d. **Geographic units of measure:** 1898 sites referenced by UTM coordinates to nearest 100 m, earlier collections identified to lot and concession.
- 3e. **Period of record:** Survey was initially carried out in 1944. Sites were resampled in 1989.
- 3f. **Update frequency:** Not applicable.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** Mainframe.
5. **Restrictions and conditions:** Not established.
6. **Price information:** Not established.
7. **Corresponding printed sources:** Numerous reports.
8. **Languages:** English.
9. **User aids available:** Field manual.
10. **Keywords:** Acid precipitation; Botany; Great Lakes
11. **Additional information:**
 1. Project conducted as part of terrestrial studies of the *Acidic Precipitation in Ontario Study (APIOS)*. Fewer sites were sampled in the immediate Sudbury area in 1989. Sampling dates were selected to match season/date of earlier collection. We estimate that the majority of 1989 sample sites are within 300 metres of the earlier sample sites.
 2. Original data are stored in Archives for Ontario.

In-Place Pollutants

IPP-0016-E

1. **Summary description:** Concentrations in the sediments of metals, nutrients and selected organics from selected sites in Ontario. Corresponding concentrations in bottom water, and

benthic organism tissues of metals, nutrients and selected organics from a limited number of sediment locations.

- 2a. **Responsible organization:** Ministry of the Environment and Energy
- 2b. **Database contact:** Mr. Rein Jaaqumagi, Sediment Scientist, Standards Development Branch, Ministry of the Environment and Energy, 2 St. Clair Avenue West, Toronto, Ont. M4V 1L5
Phone: (416) 323-5055 *Facsimile:* (416) 323-5166
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - metals (Al, As, Cd, Cz, Ce, Fe, Hg, Mn, Pb, Nu, Zn)
 - nutrients (TOC, TKN, TP)
 - organics (not at all locations - PCB, organochlorine pesticides, PAHs (16 scanned))
- 3b. **Data acquisition methods:** Field survey. Field data collected by Ministry of Environment and Energy staff.
- 3c. **Geographic coverage:** Ontario - various sites.
- 3d. **Geographic units of measure:** UTM coordinates, latitude and longitude.
- 3e. **Period of record:** 1983 to present.
- 3f. **Update frequency:** As new data is received.
- 4a. **Database storage format:** Hard disk, diskette.
- 4b. **Database computer environment:** PC, LOTUS 123.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** IPP reports, volumes I-VII.
10. **Keywords:** Contaminants; Pollution; Watersheds
11. **Additional information:** None.

Lichen and Moss Chemistry

LMC-0063-E

1. **Summary description:** Samples of lichen (*Cladonia mitis*, *Cladonia rangiferina*) and moss (*Pleurozium schreberi*) were collected as available and submitted for chemical analysis.
- 2a. **Responsible organization:** Ministry of the Environment and Energy
- 2b. **Database contact:** Mr. Ron Pearson, Manager, Phytotoxicology Section, Standards Development Branch, Ministry of the Environment and Energy, 135 St. Clair Avenue West, Toronto, Ont. M4V 1L5
Phone: (416) 323-5102 *Facsimile:* (416) 323-5166
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - lichen species
 - moss species
 - Al, As, Ca, Cd, Cl⁻, Cr, Cu, Fe, K, Mg, Mn, N, Na, Ni, P, Pb, S, Ti, V, Zn
- 3b. **Data acquisition methods:** Field survey, photographic records. Laboratory analysis of lichen and moss samples by Ministry staff.
- 3c. **Geographic coverage:** 44 sites distributed across Ontario.
- 3d. **Geographic units of measure:** Sites referenced by UTM coordinates to nearest 100 m.
- 3e. **Period of record:** 1982 to 1984.
- 3f. **Update frequency:** Single survey conducted to date.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** Mainframe, custom software.
5. **Restrictions and conditions:** Not established.
6. **Price information:** Not established.

7. **Corresponding printed sources:** Report summarizing analytical data was prepared.
8. **Languages:** English.
9. **User aids available:** Field manual.
10. **Keywords:** Botany; Great Lakes; Plants
11. **Additional information:** None.

LOWFLOW

LF-0072-E

1. **Summary description:** Duration, flow and risk return period information for low flows derived from streamflow gauging stations.
- 2a. **Responsible organization:** Ministry of the Environment and Energy
- 2b. **Database contact:** Mr. Lloyd Logan, Surface Water Surveillance Section, Environmental Monitoring and Reporting Branch, Ministry of the Environment and Energy, 125 Resources Road, Etobicoke, Ont. M9P 2V6
Phone: (416) 235-6227 *Facsimile:* (416) 235-6235
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - gauging (station number, name, location)
 - drainage area
 - number duration days (X)
 - flow (Q)
 - risk return period (Y)
 - 20 XQY low flows
- 3b. **Data acquisition methods:** Streamflow gauges. Streamflow data obtained from HYDEX (Environment Canada) are analysed to produce low flow data.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1993 to present.
- 3f. **Update frequency:** Irregularly (every 5 years).
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE, LOTUS 123.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** *Low Flow Characteristics in Ontario*.
8. **Languages:** English.
9. **User aids available:** Database details in report (see 7).
10. **Keywords:** Great Lakes; Hydrology; Water
11. **Additional information:** None.

Manifest and Generator Registration

MGR-0038-E

1. **Summary description:** Information on hazardous and liquid industrial waste transfers.
- 2a. **Responsible organization:** Ministry of the Environment and Energy
- 2b. **Database contact:** Mr. Wing Tse, Environmental Information Systems Section, Environmental Monitoring and Reporting Branch, Ministry of the Environment and Energy, 135 St. Clair Avenue West, Toronto, Ont. M4V 1P5
Phone: (416) 314-7994 *Facsimile:* (416) 314-7880
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - company (name, address, identification number)
 - waste (type, volume)

- 3b. **Data acquisition methods:** Manifest forms and generator registration reports. The forms and reports are submitted by the public as required.
- 3c. **Geographic coverage:** Ontario receivers, Canadian and American generators and carriers.
- 3d. **Geographic units of measure:** Receivers, generators and carriers referenced by county, municipality, region, district, province, state.
- 3e. **Period of record:** 1986 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Disk.
- 4b. **Database computer environment:** Mainframe.
5. **Restrictions and conditions:** Only annual summary data are available to the public.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** User's guide.
10. **Keywords:** Transportation; Waste; Industry
11. **Additional information:** Annual summary data, which can be borrowed and copied, are available from Ministry regional offices, Environmental Monitoring and Reporting Branch.

MISA Industrial Monitoring Information System

MIS-0425-E

1. **Summary description:** Effluent data from Ontario's direct discharger industrial plants.
- 2a. **Responsible organization:** Ministry of the Environment and Energy
- 2b. **Database contact:** Dr. A. K. Sharma, Supervisor, Data Management Unit, Environmental Monitoring and Reporting Branch, Ministry of the Environment and Energy, 40 St. Clair Avenue West, Toronto, Ont. M4V 1M2
Phone: (416) 314-7905 *Facsimile:* (416) 314-7880
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - conventional and non-conventional parameters including toxics
- 3b. **Data acquisition methods:** Self monitoring by plants. Audit samples collected by Ministry staff.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** UTM coordinates.
- 3e. **Period of record:** 1986 to present.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Tape, diskette.
- 4b. **Database computer environment:** IBM mainframe, COBOL, FOCUS, DB/2.
5. **Restrictions and conditions:** Restricted access.
6. **Price information:** \$25.00 per hour.
7. **Corresponding printed sources:** Annual report on the direct discharges from industrial plants in Ontario (1986 to 1992).
8. **Languages:** English.
9. **User aids available:** Database Guide. MISA effluent and compliance regulations.
10. **Keywords:** Contaminants; Great Lakes; Waste
11. **Additional information:** None.

MOEE Master Beach List

MBL-0022-E

1. **Summary description:** Beach location, characteristics and posting history.
- 2a. **Responsible organization:** Ministry of the Environment and Energy
- 2b. **Database contact:** Mr. John Antoszek, P. Eng., Municipal Programs Section, Program Development Branch, Ministry of the Environment and Energy, 40 St. Clair Avenue West, Toronto, Ont. M4V 1M2
Phone: (416) 314-3891 *Facsimile:* (416) 314-3918
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - beach name
 - location (latitude and longitude, region/district/county, municipality)
 - health unit
 - days posted per year
- 3b. **Data acquisition methods:** Reports. As reported by the Ministry of Health's local health units.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** UTM coordinates.
- 3e. **Period of record:** 1986 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE III+.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** Descriptions of data fields.
10. **Keywords:** Coastal zone; Health; Recreation
11. **Additional information:** None.

Ontario Emission Inventory System Model

OEI-0034-E

1. **Summary description:** Emission inventories of point and area sources in Ontario and related geographical areas.
- 2a. **Responsible organization:** Ministry of the Environment and Energy
- 2b. **Database contact:** Mr. Peter Wong, Senior Regulatory Engineer, Environmental Monitoring and Reporting Branch, Ministry of the Environment and Energy, 125 Resources Road, Etobicoke, Ont. M9P 3V6
Phone: (416) 235-6130 *Facsimile:* (416) 235-6037
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - sulphur dioxide
 - nitrogen oxides
 - carbon monoxide
 - ozone
 - hydrocarbon (VOC)
 - particulates
 - toxics
 - greenhouse gases
- 3b. **Data acquisition methods:** Questionnaires from the branch that solicit data on company productivity and census and energy profile data from Statistics Canada are used to calculate pollutant emissions.
- 3c. **Geographic coverage:** Mainly Ontario, with a subset for North America.

- 3d. **Geographic units of measure:** Ontario sources referenced by postal code.
- 3e. **Period of record:** 1980 to present.
- 3f. **Update frequency:** Annually; field survey as budget and program allow.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC, DBASE, LOTUS 123, SPANS GIS, SQL, ORACLE.
5. **Restrictions and conditions:** Proprietary production activity data are confidential.
6. **Price information:** According to effort required to extract data.
7. **Corresponding printed sources:** Annual data summary report- Ontario Ministry of Environment and Energy fast reference emission document.
8. **Languages:** English.
9. **User aids available:** Consult technical contact.
10. **Keywords:** Emissions; Environmental Science; Great Lakes; Geographic Information System
11. **Additional information:** None.

Ontario Typical Range

OTR-0058-E

1. **Summary description:** Soil and vegetation samples representing a variety of landuses across Ontario analyzed for a wide range of chemical parameters to establish normal concentrations of each.
- 2a. **Responsible organization:** Ministry of the Environment and Energy
- 2b. **Database contact:** Mr. Ron Pearson, Manager, Phytotoxicology Section, Standards Development Branch, Ministry of the Environment and Energy, 135 St. Clair Avenue West, Toronto, Ont. M4V 1L5
Phone: (416) 323-5102 *Facsimile:* (416) 323-5166
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - Sb, As, Ba, Be, B, Cd, Cl⁻, Co, Cr(IV), Cr, Cu, cyanide, F, Fe, Pb, Mg, Mn, Hg, Mo, Ni, P, K, Se, Ag, Na, Sr, S, Ti, Th, U, V, Zn, TKN, EC, SAR, PAH volatile monocyclic aromatics, phenolics, PCB halogenated aliphatics dioxins, furans
 - pH
- 3b. **Data acquisition methods:** Field survey followed by laboratory analysis. Data collection and analysis by Ministry staff.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** Sites referenced by UTM coordinates to nearest 100 m.
- 3e. **Period of record:** 1991 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** Mainframe, custom software.
5. **Restrictions and conditions:** Not established.
6. **Price information:** Not established.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** Field manual.
10. **Keywords:** Botany; Great Lakes; Plants
11. **Additional information:** The information is to be used in interpreting monitoring data and as a reference point for disposal of soil and soil-like materials. Additional sampling to cover more land use classifications and plant species will be undertaken as time and resources permit.

Ontario Waste Disposal Site Inventory

OWD-0039-E

1. **Summary description:** Location, classification, waste type and closure date for active and closed waste disposal sites in Ontario.
- 2a. **Responsible organization:** Ministry of the Environment and Energy
- 2b. **Database contact:** Ms. D. Conrod, Hydrogeologist, Science and Technology Branch, Ministry of the Environment and Energy, 2 St. Clair Avenue West, Toronto, Ont. M4V 1L5
Phone: (416) 323-5217 Facsimile: (416) 323-5031
- 2c. **Access mechanisms:** Through the responsible organization (see 11).
- 3a. **Parameters measured:**
 - site (name, location, classification, closure date)
 - waste types
- 3b. **Data acquisition methods:** Field inventories. Ministry staff and consultants conduct studies ranging from visual site inspections to full hydrogeological investigation for human and environmental impacts.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** UTM coordinates, municipalities, lots, concessions.
- 3e. **Period of record:** 1979 to present.
- 3f. **Update frequency:** Every 2 to 3 years.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, LOTUS 123.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge to the public.
7. **Corresponding printed sources:** A publication is available to the public.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Contaminants; Waste; Human Health
11. **Additional information:**
 1. The publication can be obtained from the Public Information Centre, Ontario Ministry of Environment and Energy, 135 St. Clair Ave. W., Toronto, Ontario M4V 1P5; (416) 323-4321. Only the report (not the database) is available to the public.
 2. The environmental parameters in 3a are evaluated as required.

PCDD/PCDF Monitoring

PCD-0044-E

1. **Summary description:** Air samples are collected regularly at selected monitoring sites to quantify concentrations of polychlorinated dibenzo-p-dioxins (PCDDs) and polychlorinated dibenzofurans (PCDFs).
- 2a. **Responsible organization:** Ministry of the Environment and Energy
- 2b. **Database contact:** Mr. Peter Steer, Science and Technology Branch, Ministry of the Environment and Energy, 2 St. Clair Avenue West, Toronto, Ont. M4V 1L5
Phone: (416) 323-5091 Facsimile: (416) 323-5021
- 2c. **Access mechanisms:** Verbal or written request through investigator.
- 3a. **Parameters measured:**
 - homologue groups (tetra-, penta-, hexa-, hepta- and octa-PCDDs and PCDFs)
 - 15 toxic congeners

- 3b. **Data acquisition methods:** High-volume air sampler. PCDDs/PCDFs in air are sampled for 48 hr (commencing 0000h), every 4th Wednesday. A known volume of air is drawn through a modified high-volume air sampler's sampling train, consisting of a Teflon-coated glass fibre filter upstream of an adsorbent (polyurethane foam) plug.
- 3c. **Geographic coverage:** PCDDs/PCDFs in air samples are collected at 2 urban sites (Toronto, Windsor) and one rural, background site (Dorset).
- 3d. **Geographic units of measure:** Sampling sites referenced by UTM zone and coordinates.
- 3e. **Period of record:** 1988 to present. Only partial coverage is available for 1988.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE IV.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Various conference proceedings, journal articles and internal reports have used the contents of the database. A publication list is available from the investigator.
8. **Languages:** English.
9. **User aids available:** Hardcopy describing dataset format is issued with storage media.
10. **Keywords:** Air quality; Contaminants; Great Lakes
11. **Additional information:** None.

Personal Exposure

PEX-0440-E

1. **Summary description:** This ongoing program was established to investigate human exposure to airborne toxics for Ontario residents. Personal exposure information is obtained by combining the concentration of various classes of chemicals in different microenvironments with the amount of time spent in those microenvironments (outdoor, indoor, commuting).
- 2a. **Responsible organization:** Ministry of the Environment and Energy
- 2b. **Database contact:** Mr. Ronald Bell or, Mr. Brian Kruschel, Atmospheric Studies Section, Science and Technology Branch, Ministry of the Environment and Energy, 2 St. Clair Avenue West, Toronto, Ont. M4V 1L5
Phone: (416) 323-5242 Facsimile: (416) 323-5031
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - volatile organic compounds (VOCs)
 - carbonyls (aldehydes and ketones)
 - trace metals
 - hexavalent chromium (VI) (airborne)
 - other compounds under consideration (PAHs, pesticides)
- 3b. **Data acquisition methods:** Field studies. Ministry staff conduct studies using low and high flow rate air samplers collecting analytes on multistage absorbent traps, filters and impinger systems (analyte dependent).
- 3c. **Geographic coverage:** Selected sites in Ontario.
- 3d. **Geographic units of measure:** Studies focus on a distinct city of interest.
- 3e. **Period of record:** 1990 to present.
- 3f. **Update frequency:** Irregular.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE IV, LOTUS 123.
5. **Restrictions and conditions:** Not established.

6. **Price information:** Not established.
7. **Corresponding printed sources:** Various conference proceedings, journal articles, various internal and public Ministry reports.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Contaminants; Waste; Great Lakes
11. **Additional information:** Studies have been done in Toronto, Windsor and Hamilton to date, in randomly selected private homes, workplace and commuting situations, and during some leisure activities (such as bingo halls). Indoor and outdoor air were often measured concurrently. Each study culminates in a public report.

Polycyclic Aromatic Hydrocarbons

PAH-0042-E

1. **Summary description:** Air samples are collected regularly at fixed sites to quantify concentrations of selected polycyclic aromatic hydrocarbons (PAHs) in urban areas of Ontario.
- 2a. **Responsible organization:** Ministry of the Environment and Energy
- 2b. **Database contact:** Dr. Gerald Diamond, Science and Technology Branch, Ministry of the Environment and Energy, 135 St. Clair Avenue West, Toronto, Ont. M4V 1L5
Phone: (416) 323-5212 *Facsimile:* (416) 323-5021
- 2c. **Access mechanisms:** Written request through investigator.
- 3a. **Parameters measured:**
 - 33 PAHs including (benzo compounds, naphthalene compounds, anthracene compounds, 1-methyl phenanthrene, acenaphthalene, chrysene, fluoranthene, pyrene, triphenylene)
- 3b. **Data acquisition methods:** High-volume air sampler. PAHs are sampled for 24 hr (commencing 0000h), once every 12 days. A known volume of air is drawn through a modified high-volume air sampler's sampling train, consisting of a Teflon-coated glass fibre filter upstream of an adsorbent (XAD-2) cartridge.
- 3c. **Geographic coverage:** PAHs in air are collected at 9 urban sites (in 6 cities) across Ontario.
- 3d. **Geographic units of measure:** Sampling sites are referenced by UTM zone and coordinates.
- 3e. **Period of record:** 1989 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE IV.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** Hardcopy describing dataset format is issued with storage media.
10. **Keywords:** Contaminants; Toxic chemicals; Air quality
11. **Additional information:** Not all database records go back to 1989.

Provincial Water Quality Monitoring Network

PWQ-0018-E

1. **Summary description:** Surface water quality data for Ontario rivers and streams.
- 2a. **Responsible organization:** Ministry of the Environment and Energy

- 2b. **Database contact:** Mr. Brian Whitehead, Environmental Monitoring and Reporting Branch, Ministry of the Environment and Energy, 125 Resources Road, Etobicoke, Ont. M9P 2V6
Phone: (416) 235-6256 *Facsimile:* (416) 235-6235
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - general physical/chemical parameters
 - nutrients
 - heavy metals
 - microbiology
 - some trace organics and pesticides
- 3b. **Data acquisition methods:** Field surveys. Field data collected by Ministry staff (grab samples).
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** UTM coordinates.
- 3e. **Period of record:** 1964 to present.
- 3f. **Update frequency:** Stations sampled 6 to 12 times per year.
- 4a. **Database storage format:** Hardcopy, diskette, 9 track tape.
- 4b. **Database computer environment:** IBM mainframe.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Hydrology; Water quality; Watersheds
11. **Additional information:** None.

Soil Baseline Chemistry

SBC-0059-E

1. **Summary description:** Soil pits were dug at approximately 400 sites and samples collected from each horizon to serve as baseline data to assess effects of acidic precipitation.
- 2a. **Responsible organization:** Ministry of the Environment and Energy
- 2b. **Database contact:** Mr. Ron Pearson, Manager, Phytotoxicology Section, Standards Development Branch, Ministry of the Environment and Energy, 135 St. Clair Avenue West, Toronto, Ont. M4V 1L5
Phone: (416) 323-5102 *Facsimile:* (416) 323-5166
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - soil (texture, vegetation cover)
 - pH
 - exchangeable Ca, Mg, K, Al
 - CEC, pyrophosphate and dithionite extractable Fe, Al, Mn
 - organic carbon
 - CO₃
 - soluble S and SO₄²⁻
 - total N
 - total and available P
 - soluble Al
 - Cu, Ni, Pb, Zn
- 3b. **Data acquisition methods:** Field survey followed by laboratory analysis. Sampling and analysis carried out by Ministry staff.
- 3c. **Geographic coverage:** Province-wide except for far north.
- 3d. **Geographic units of measure:** Sites referenced by UTM coordinates to nearest 100 m.
- 3e. **Period of record:** 1980 to 1986.
- 3f. **Update frequency:** About 25 percent of the sites were resampled in 1986.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** Mainframe, custom software.

5. **Restrictions and conditions:** Not established.
6. **Price information:** Not established.
7. **Corresponding printed sources:** Printed reports with tabulated data.
8. **Languages:** English.
9. **User aids available:** Field manual.
10. **Keywords:** Contaminants; Great Lakes; Soils
11. **Additional information:** Work was completed as part of the Acidic Precipitation in Ontario Study (APIOS).

Sport Fish Contaminant Monitoring Program

SFC-0015-E

1. **Summary description:** Contaminant results from sampling of Ontario sport fish. Between 7,000 to 10,000 fish per year are sampled for up to 70 contaminants.
- 2a. **Responsible organization:** Ministry of the Environment and Energy
- 2b. **Database contact:** Mr. Chuck Cox, Environmental Monitoring and Reporting Branch, Ministry of the Environment and Energy, 40 St. Clair Avenue West, Toronto, Ont. M4B 1P5
Phone: (416) 314-7901 Facsimile: (416) 314-7880
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - species (length, weight, sex)
 - all fish sampled for mercury
 - fish may also be sampled for (PCB's, mirex, DDT, other organic contaminants, PAH's, chlorinated phenols/benzenes, heavy metals, dioxins, furans)
- 3b. **Data acquisition methods:** Field collection. Sport fish collected by netting methods by Ontario Ministry of Natural Resources.
- 3c. **Geographic coverage:** Ontario, including Lakes Ontario, Huron, Erie and Superior.
- 3d. **Geographic units of measure:** Latitude and longitude, some gazetteer locations.
- 3e. **Period of record:** 1967 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, ORACLE (1986 to 1991 files).
5. **Restrictions and conditions:** None.
6. **Price information:** No charge for small volume requests.
7. **Corresponding printed sources:** *Guide to Eating Ontario Sport Fish.*
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Contaminants; Fish; Great Lakes
11. **Additional information:** None.

Surveys for Oxidant Injury to Field Crops

SOI-0064-E

1. **Summary description:** Surveys to assess acute ozone toxicity to potato, tomato and white bean crops are conducted at established field plot trials at agricultural research stations.
- 2a. **Responsible organization:** Ministry of the Environment and Energy
- 2b. **Database contact:** Mr. Ron Pearson, Manager, Phytotoxicology Section, Standards Development Branch, Ministry of the Environment and Energy, 135 St. Clair Avenue West, Toronto, Ont. M4V 1L5
Phone: (416) 323-5102 Facsimile: (416) 323-5166

- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - rated symptoms of acute ozone toxicity
 - cultivar
- 3b. **Data acquisition methods:** Field survey. Crops are visually inspected for toxicity symptoms.
- 3c. **Geographic coverage:** Agricultural Research Stations in southern Ontario (potato 4 stations, tomato 4 stations, white bean 6 stations).
- 3d. **Geographic units of measure:** Sites referenced by UTM grid to nearest 100 m.
- 3e. **Period of record:** Potato 1977 to present
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, LOTUS 123.
5. **Restrictions and conditions:** Not established.
6. **Price information:** Not established.
7. **Corresponding printed sources:** Synoptic Reports prepared periodically.
8. **Languages:** English.
9. **User aids available:** Field manual.
10. **Keywords:** Agriculture; Great Lakes; Ozone
11. **Additional information:** Monitoring data have been used in conjunction with air quality data in estimating crop yield loss in Ontario. Due to changes in operation of the research stations, surveys may be restructured in future years.

Toronto Lead Survey

TLS-0067-E

1. **Summary description:** This study was established to document trends in levels of lead and other metals in soil and vegetation in the vicinity of major transportation corridors in Toronto.
- 2a. **Responsible organization:** Ministry of the Environment and Energy
- 2b. **Database contact:** Mr. Ron Pearson, Manager, Phytotoxicology Section, Standards Development Branch, Ministry of the Environment and Energy, 135 St. Clair Avenue West, Toronto, Ont. M4V 1L5
Phone: (416) 323-5102 Facsimile: (416) 323-5166
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - elements (Pb, Cu, Ni, Zn, Fe, Mn, Al, As, Cd, Co, Cr, Mo, Na, Sb, Se, Sr, V)
 - tree or shrub foliage (2 distances from major roadways)
 - soil (0-2.5 cm and 10-15 cm, 2 distances from major roadways)
- 3b. **Data acquisition methods:** Field sampling. Sample collection and laboratory analysis by Ministry staff.
- 3c. **Geographic coverage:** The study includes 65 sites within Metropolitan Toronto.
- 3d. **Geographic units of measure:** Sample sites referenced by UTM coordinates to nearest 100 m.
- 3e. **Period of record:** 1971 to present.
- 3f. **Update frequency:** Ten-year intervals.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** Mainframe.
5. **Restrictions and conditions:** Not established.
6. **Price information:** Not established.
7. **Corresponding printed sources:** Numerous reports.
8. **Languages:** English.
9. **User aids available:** Field manual.
10. **Keywords:** Contaminants; Great Lakes; Soils

11. Additional information:

1. The full range of parameters listed above is not available for all years.
2. All data will be entered into PC electronic format to facilitate data summary and interpretation.

Toxic Organics in the Terrestrial Environment

TOT-0065-E

1. **Summary description:** Samples of surface soil from selected rural and urban sites were chemically analyzed to establish background concentrations of several organic chemicals. Preliminary estimates of concentration variability within sites were made.
- 2a. **Responsible organization:** Ministry of the Environment and Energy
- 2b. **Database contact:** Mr. Ron Pearson, Manager, Phytotoxicology Section, Standards Development Branch, Ministry of the Environment and Energy, 135 St. Clair Avenue West, Toronto, Ont. M4V 1L5
Phone: (416) 323-5102 *Facsimile:* (416) 323-5166
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - PAH, PCB
 - dioxins, furans
 - DDT and DDT derivatives
 - insecticides
 - volatile monocyclic aromatics
- 3b. **Data acquisition methods:** Field survey. Sample collection and laboratory analysis by Ministry staff.
- 3c. **Geographic coverage:** A total of 37 sites across the southern portion of Ontario (25 rural, 12 urban).
- 3d. **Geographic units of measure:** Sites referenced by UTM coordinates to nearest 100 m.
- 3e. **Period of record:** 1988 to 1990.
- 3f. **Update frequency:** Annually (see 11).
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, LOTUS 123.
5. **Restrictions and conditions:** Not established.
6. **Price information:** Not established.
7. **Corresponding printed sources:** Numerous reports.
8. **Languages:** English.
9. **User aids available:** Field manual.
10. **Keywords:** Contaminants; Great Lakes; Soils
11. **Additional information:** Most of the role of this project has been taken over by the Ontario Typical Range Project.

Tree Seedling Plot Project

TSP-0062-E

1. **Summary description:** A network of plots was set up to monitor response of tree seedlings to acidic precipitation. Of the original network, ten plots of red and/or jack pine were selected for monitoring tree growth, condition and soil and foliage chemistry.
- 2a. **Responsible organization:** Ministry of the Environment and Energy
- 2b. **Database contact:** Mr. Ron Pearson, Manager, Phytotoxicology Section, Standards Development Branch, Ministry of the Environment and Energy, 135 St. Clair Avenue West, Toronto, Ont. M4V 1L5
Phone: (416) 323-5102 *Facsimile:* (416) 323-5166
- 2c. **Access mechanisms:** Through the responsible organization.

3a. Parameters measured:

- tree (crown condition, diameter, 1-year old foliage)
- soil for 0 to 5 cm and 0 to 15 cm (pH, Cu, Ni, Pb, Zn, Fe, Mn, Al, Cd, Co, Cr, Mo, Na, Sr, V)

3b. Data acquisition methods: Field survey followed by laboratory analysis. Data collection by Ministry staff.

3c. Geographic coverage: 10 plots across northeastern Ontario.

3d. Geographic units of measure: Sites referenced by UTM coordinates to nearest 100 m.

3e. Period of record: 1979 to 1990. Annual assessment of tree health to 1984, one-time chemistry and condition monitoring in 1990.

3f. Update frequency: See 3e.

4a. Database storage format: Hardcopy, diskette.

4b. Database computer environment: Mainframe, custom software.

5. Restrictions and conditions: Not established.

6. Price information: Not established.

7. Corresponding printed sources: None.

8. Languages: English.

9. User aids available: Field manual.

10. Keywords: Acid precipitation; Botany; Great Lakes

11. Additional information: None.

Utility Monitoring Information System

UMI-0091-E

1. **Summary description:** Effluent data from Ontario municipal sewage and drinking water plants.
- 2a. **Responsible organization:** Ministry of the Environment and Energy
- 2b. **Database contact:** Dr. A. K. Sharma, Supervisor, Data Management Unit, Environmental Monitoring and Reporting Branch, Ministry of the Environment and Energy, 40 St. Clair Avenue West, Toronto, Ont. M4V 1M2
Phone: (416) 314-7905 *Facsimile:* (416) 314-7880
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - conventional parameters
- 3b. **Data acquisition methods:** Self monitoring by plants. Audit samples collected by Ministry staff.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** UTM coordinates.
- 3e. **Period of record:** 1980 to present.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Tape, diskette.
- 4b. **Database computer environment:** IBM mainframe, COBOL, FOCUS.
5. **Restrictions and conditions:** Restricted access.
6. **Price information:** \$25.00 per hour.
7. **Corresponding printed sources:** Annual report on the discharges from municipal sewage treatment plants in Ontario (1980 to 1992).
8. **Languages:** English.
9. **User aids available:** Database Guide.
10. **Keywords:** Contaminants; Effluents; Great Lakes
11. **Additional information:** None.

Vegetation Baseline Foliar Chemistry

VBF-0066-E

1. **Summary description:** The project was established to provide a baseline status of foliar chemical composition of a range of tree species at a range of locations for acidic precipitation studies.
- 2a. **Responsible organization:** Ministry of the Environment and Energy
- 2b. **Database contact:** Mr. Ron Pearson, Manager, Phytotoxicology Section, Standards Development Branch, Ministry of the Environment and Energy, 135 St. Clair Avenue West, Toronto, Ont. M4V 1L5
Phone: (416) 323-5102 *Facsimile:* (416) 323-5166
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - elements (S, N, P, K, Ca, Mg, Na, Al, Mn, Fe, Cu, Zn, Mo, Cl)
 - 17 tree species
- 3b. **Data acquisition methods:** Field survey. Laboratory analysis of foliage by Ministry staff.
- 3c. **Geographic coverage:** Initially 17 sites were established across southern Ontario. Only 12 sites were used in more recent investigations.
- 3d. **Geographic units of measure:** Sites referenced by UTM grid to nearest 100 m.
- 3e. **Period of record:** 1980 to 1992.
- 3f. **Update frequency:** Six years.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, LOTUS 123.
5. **Restrictions and conditions:** Not established.
6. **Price information:** Not established.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** Field manual.
10. **Keywords:** Acid precipitation; Botany; Great Lakes
11. **Additional information:** Tree species sampled varied according to availability on site (17 were available on one or more sites).

Volatile Organic Compounds

VOC-0045-E

1. **Summary description:** Air samples are collected regularly at fixed monitoring sites to quantify concentrations of selected volatile organic compounds (VOCs) in urban areas of Ontario.
- 2a. **Responsible organization:** Ministry of the Environment and Energy
- 2b. **Database contact:** Mr. Peter Steer, Science and Technology Branch, Ministry of the Environment and Energy, 2 St. Clair Avenue West, Toronto, Ont. M9P 3V6
Phone: (416) 323-5091 *Facsimile:* (416) 323-5021
- 2c. **Access mechanisms:** Verbal or written request through investigator.
- 3a. **Parameters measured:**
 - 28 compounds including (naphthalene, dichloromethane, dichloroethanes, toluene, tetrachloroethylene, chlorobenzene, styrene, vinyl chloride, dichlorobenzenes)
- 3b. **Data acquisition methods:** Low-volume Gillian sampler. VOCs in air are sampled for 24 hr (0000h), once every 12 days. A known volume of air is drawn through a multistage sorbent trap by a low-volume Gillian sampler.

- 3c. **Geographic coverage:** VOCs in air samples are collected at 14 urban sites across Ontario and at one rural background site.
- 3d. **Geographic units of measure:** Sampling sites referenced by UTM zone and coordinates.
- 3e. **Period of record:** 1989 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE IV, LOTUS 123.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Various conference proceedings, journal articles and internal reports have used the contents of the database. A publication list is available from the investigator.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Air quality; Contaminants; Great Lakes
11. **Additional information:** None.

Water Well Information System

WWI-0017-E

1. **Summary description:** Water well record summaries.
- 2a. **Responsible organization:** Ministry of the Environment and Energy
- 2b. **Database contact:** Mr. Kim Yee, Senior Inspector, Environmental Standards and Sciences, Ministry of the Environment and Energy, 40 St. Clair Avenue West, Toronto, Ont. M4V 1M2
Phone: (416) 314-4156 *Facsimile:* (416) 314-4128
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - water well log data (formation, depth to water, type of casings, pumping test data, use of water, method of construction)
- 3b. **Data acquisition methods:** Regulation reports. By regulation all wells constructed must be reported (Ontario Regulation 903, RRO, 1990).
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** UTM coordinates.
- 3e. **Period of record:** 1946 to present. 1946 to 1984 - most of Ontario. 1946 to present - some areas only.
- 3f. **Update frequency:** Intermittent.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** Ministry staff have direct database access.
6. **Price information:** No charge for single records, charge for larger requests.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Great Lakes; Hydrology; Water
11. **Additional information:** None.



Ministry of Transportation

Highway Inventory Management System

HIM-0013-E

1. **Summary description:** Details of provincial highway attributes, usage, deficiencies and recommended improvements.
- 2a. **Responsible organization:** Ministry of Transportation
- 2b. **Database contact:** Mr. Max Perera, Head, Information Management, Quality and Standards, Ministry of Transportation, 4th Floor, 1201 Wilson Avenue, West Tower, Downsview, Ont. M3M 1J8
Phone: (416) 235-4109 Facsimile: (416) 235-4255
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - highway (location, reference, description, number, type, category, usage, traffic, accidents)
 - physical attributes (number of lanes, width, pavement type)
 - deficiencies (by type and time)
 - recommended improvements (estimated costs)
- 3b. **Data acquisition methods:** Regional and Head Office reports.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** Linear highway referencing system (LHRS).
- 3e. **Period of record:** 1985 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** Mainframe.
5. **Restrictions and conditions:** None.
6. **Price information:** Nominal charge, data available at cost.
7. **Corresponding printed sources:** See data centre contact.
8. **Languages:** English.
9. **User aids available:** User's manual.
10. **Keywords:** Great Lakes; Roads; Transportation
11. **Additional information:** None.

Mineral Aggregate Inventory Database

MAI-0001-E

1. **Summary description:** MAIDB is a computerized system for the management of aggregate resource (sand, gravel and crushed stone) data. Its purpose is to store and maintain aggregate resources data and to generate aggregate resource list reports.
- 2a. **Responsible organization:** Ministry of Transportation
- 2b. **Database contact:** Mr. William Afful, Computer Systems Officer, Quality and Standards Division, Transportation, Engineering and Standards Branch, Engineering Material Office, Ministry of Transportation, 3rd Floor, Central Building, 1201 Wilson Avenue, Downsview, Ont. M3M 1J8
Phone: (416) 235-3733 Facsimile: (416) 235-5240
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - pits or quarry name, location
 - use potential assessment
 - material used (granular, hot mix paving or concrete applications)

- 3b. **Data acquisition methods:** Regional offices conduct field surveys and investigations.
- 3c. **Geographic coverage:** Ontario by Ministry of Transportation regions (Central, SW, E, N, NW).
- 3d. **Geographic units of measure:** UTM coordinates.
- 3e. **Period of record:** 1950 to present.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy, hard disk, tape.
- 4b. **Database computer environment:** IBM mainframe.
5. **Restrictions and conditions:** Access to Ministry of Transportation mainframe terminals.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Aggregate Source List.
8. **Languages:** English.
9. **User aids available:** MAIDB instruction manual (Version 5.6 and 6.0).
10. **Keywords:** Great Lakes; Minerals; Mining
11. **Additional information:**
 1. Organization has regional responsibility to report on status of pits and quarries in the form of an Aggregate Source List (ASL).
 2. In addition to producing the ASL, other reports can be produced from the regional files.

Project Information Management System

PIM-0014-E

1. **Summary description:** Inventory of Provincial Multi-year Construction programs including construction details, value, time, location.
- 2a. **Responsible organization:** Ministry of Transportation
- 2b. **Database contact:** Mr. Ross Critelli, Head, Resources Technology Services, Resources Management Branch, Operations Division, Ministry of Transportation, 1201 Wilson Avenue, Downsview, Ont. M3M 1J8
Phone: (416) 235-5228 Facsimile: (416) 235-4255
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - construction projects (number, location, description, type of work, value, key dates (award date), traffic data, contractor information)
- 3b. **Data acquisition methods:** Analysis results, observations, reports. Input by regional and head office staff.
- 3c. **Geographic coverage:** Ontario provincial highway network.
- 3d. **Geographic units of measure:** Linear Highway Reference System (LHRS).
- 3e. **Period of record:** 1985 to present.
- 3f. **Update frequency:** Daily.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** Mainframe.
5. **Restrictions and conditions:** Access restricted to Ministry staff; summary data available.
6. **Price information:** Not available.
7. **Corresponding printed sources:** *Provincial Highways Construction Projects, 1991.*
8. **Languages:** English.
9. **User aids available:** Confidential.
10. **Keywords:** Construction; Engineering; Great Lakes
11. **Additional information:** Parallel expenditure control and construction staffing level systems also exist.

Provincial Salt and Sand Use

PSS-0076-E

1. **Summary description:** Inventory of salt and sand used in winter road maintenance.
- 2a. **Responsible organization:** Ministry of Transportation
- 2b. **Database contact:** Mr. Ken Kirchner, Manager, Maintenance Office, Transportation Operations Branch, Ministry of Transportation, 1201 Wilson Avenue, Room 230 Cent. Bldg., Downsview, Ont. M3M 1J8
Phone: (416) 235-3764 *Facsimile:* (416) 235-3656
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - salt used for winter maintenance
 - tonnes/equivalent two lane kilometre
 - tonnes/district
 - sand use
- 3b. **Data acquisition methods:** Reports. Ministry field staff record salt and sand use by District.
- 3c. **Geographic coverage:** Province of Ontario Provincial Highway System.
- 3d. **Geographic units of measure:** MTO (Ministry of Transportation) Districts referenced by name.
- 3e. **Period of record:** 1974 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy (tables, graphs), diskette.
- 4b. **Database computer environment:** PC, LOTUS 123.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Internal reports.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Contaminants; Great Lakes; Roads
11. **Additional information:** None.

Traffic Volume Information System

TVI-0012-E

1. **Summary description:** Various traffic volume data items for approximately 2,800 individual Ontario provincial highway sections.
- 2a. **Responsible organization:** Ministry of Transportation
- 2b. **Database contact:** Mr. Paul M. Saunders, Traffic Characteristics Unit Supervisor, Traffic Management and Engineering Office, Ministry of Transportation, Room 236, Central Building, 1201 Wilson Avenue, Downsview, Ont. M3M 1J8
Phone: (416) 235-4115 *Facsimile:* (416) 235-4904
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - LHRS/Offset (location code of highway section starting point)
 - section length (tenths of kilometres)
 - highway number/section number
 - for each year (annual average daily traffic volume, summer average daily traffic volume, summer average weekday traffic volume, winter average daily traffic volume, number of accidents by highway section)
 - accident rate (number of reportable accidents per million vehicle kilometres)
 - numerous other data items related to traffic volumes and highway physical characteristics

- 3b. **Data acquisition methods:** Traffic counting devices, observations, reports. 1/3 of the highway network is counted 3 times per year, every 3rd year. A limited number of highway sections is counted continuously.
- 3c. **Geographic coverage:** 2,800 highway sections with unique traffic characteristics covering the entire provincial highway network.
- 3d. **Geographic units of measure:** Linear Highway Reference System (LHRS), arbitrary 5 digit location code number and offset distance accurate to 1/10 km.
- 3e. **Period of record:** 1965 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, PCFOCUS, mainframe.
5. **Restrictions and conditions:** Password protected; direct access limited to TCU (Traffic Characteristics Unit) staff.
6. **Price information:** No charge (presently under review).
7. **Corresponding printed sources:** Reference reports include: *Provincial Highways Traffic Volumes* (contains selected data items only); *Permanent Counting Stations Annual Report*.
8. **Languages:** English.
9. **User aids available:** Use of an ASCII editor and/or computer spreadsheet software for data manipulation/presentation purposes (use at requestor's discretion).
10. **Keywords:** Great Lakes; Roads; Transportation
11. **Additional information:** Data are used internally to project future traffic volumes for highway design and highway system expansion planning purposes.



Royal Ontario Museum

Ministry of Natural Resources Aquatic Habitat Inventory

MNR-0034-E

1. **Summary description:** Biological documentation of over 300,000 specimens of crayfish, leeches, mussels, snails and insects from lakes, rivers and streams in Ontario.
- 2a. **Responsible organization:** Royal Ontario Museum
- 2b. **Database contact:** Ms. Sheila Byers, Curatorial Assistant, Department of Invertebrate Zoology, Royal Ontario Museum, 100 Queens Park, Toronto, Ont. M5S 2C6
Phone: (416) 586-8041 *Facsimile:* (416) 586-5863
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - species (family, genus, sex, species authority, date of identification, number of individuals)
 - collector (name, collection date)
 - location (station number, site name, waterbody, watershed, latitude and longitude, township, lot number, accession number, county or district in Ontario)
 - catalogue (number)
- 3b. **Data acquisition methods:** Field survey inventory. Various methods used in the collection of freshwater invertebrates.
- 3c. **Geographic coverage:** Ontario.
- 3d. **Geographic units of measure:** Latitude and longitude
- 3e. **Period of record:** 1968 to 1988.
- 3f. **Update frequency:** Ongoing.
- 4a. **Database storage format:** Hard disk, diskette.

- 4b. **Database computer environment:** PC, ALPHA FOUR.
5. **Restrictions and conditions:** Undetermined.
6. **Price information:** Minimal fees.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** *ALPHA FOUR Manual*.
10. **Keywords:** Biota; Ecology; Lakes
11. **Additional information:**
 1. The Information Branch of the Ministry of Natural Resources is in the process of entering biological data on the aquatic invertebrates as part of a provincial database system.
 2. Physical and chemical data relating to the aquatic invertebrate collections may be incorporated at a later date.
 3. A preliminary database has been developed using a subset of the larger MNR (Ministry of Natural Resources) collection, 373 records have been entered.

Herpetology

ROM-0031-E

1. **Summary description:** Records of preserved specimens and frozen tissues in the herpetology collection.
- 2a. **Responsible organization:** Royal Ontario Museum
- 2b. **Database contact:** Dr. R. W. Murphy, Curator-In-Charge, Ichthyology and Herpetology, Royal Ontario Museum, 100 Queens Park, Toronto, Ont. M5S 2C6
Phone: (416) 586-5759 *Facsimile:* (416) 586-5863
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - species (name, locality, habitat, capture details)
 - taxonomic and specimen characteristics
- 3b. **Data acquisition methods:** Field data collection. Field notes and specimen collection.
- 3c. **Geographic coverage:** International with emphasis on North America, Armenia, Canada, Indo-Pacific and South America.
- 3d. **Geographic units of measure:** Variable.
- 3e. **Period of record:** 1850 to present.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC, DBASE. Access to CHIN mainframe.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Systematic publications and environmental assessments.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Biology; Great Lakes; Reptiles
11. **Additional information:**
 1. Further information on Canadian Zoological collections is available through the Canadian Society of Zoologists' Collections Database (contact Dr. M. Arai, University of Calgary).
 2. The National Database for the Natural Sciences held by the CHIN (Canadian Heritage Information Network, Ottawa) has a subset of the fields of this database.

Ichthyology

ROM-0027-E

1. **Summary description:** Records of fish in the ichthyology collection.
- 2a. **Responsible organization:** Royal Ontario Museum

- 2b. **Database contact:** Mr. Erling Holm, Ichthyology and Herpetology, Royal Ontario Museum, 100 Queens Park, Toronto, Ont. M5S 2O6

Phone: (416) 586-5760 *Facsimile:* (416) 586-5863

- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - specimen (characteristics, locality, habitat, capture details, taxonomic details)
- 3b. **Data acquisition methods:** Field data collection and field notes. Laboratory identification and analysis.
- 3c. **Geographic coverage:** Canada (particularly Ontario), Indo-Pacific, South America, Africa, Russia.
- 3d. **Geographic units of measure:** Variable, but most records have latitude and longitude.
- 3e. **Period of record:** 1921 to present. Earliest record on capture is 1866.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC, FOXPRO, DBASE, CLIPPER. Access to CHIN mainframe.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Taxonomic and zoogeographic publications, environmental assessments.
8. **Languages:** English.
9. **User aids available:** Data Field Dictionary.
10. **Keywords:** Biology; Fish; Great Lakes
11. **Additional information:**
 1. Further information on Canadian Zoological collections is available through the Canadian Society of Zoologists' Collections Database (contact Dr. M. Arai, University of Calgary).
 2. The National Database for the Natural Sciences held by the CHIN (Canadian Heritage Information Network, Ottawa) has a subset of the fields of this database.

Mammalogy

ROM-0032-E

1. **Summary description:** 90,000 mammal voucher specimen records.
- 2a. **Responsible organization:** Royal Ontario Museum
- 2b. **Database contact:** Curator-In-Charge, Mammalogy, Royal Ontario Museum, 100 Queens Park, Toronto, Ont. M5S 2C6
Phone: (416) 586-5766 *Facsimile:* (416) 586-5863
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - species (locality, habitat, biological/morphological data, breeding data)
 - specimen (treatment/preparation, date)
- 3b. **Data acquisition methods:** Field surveys. Field notes, public donations, zoos, purchase of specimens.
- 3c. **Geographic coverage:** World-wide, 40 percent Canadian specimens.
- 3d. **Geographic units of measure:** UTM coordinates and latitude and longitude.
- 3e. **Period of record:** 1840 to present.
- 3f. **Update frequency:** Weekly.
- 4a. **Database storage format:** Diskette, tape.
- 4b. **Database computer environment:** PC, DBASE III+. Access to CHIN mainframe.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.

7. **Corresponding printed sources:** Numerous reports and publications.
8. **Languages:** English.
9. **User aids available:** *Paris User's Guide*, *Paris Database Guide*. In-house documentation.
10. **Keywords:** Biology; Great Lakes; Mammals
11. **Additional information:** The National Database for the Natural Sciences held by the CHIN (Canadian Heritage Information Network, Ottawa) has a subset of the fields of this database.

Ornithology

ROM-0010-E

1. **Summary description:** Data available for all ornithology collections.
- 2a. **Responsible organization:** Royal Ontario Museum
- 2b. **Database contact:** Mr. Brad Millen, Technician, Ornithology, Royal Ontario Museum, 100 Queen's Park, Toronto, Ont. M5S 2C6
Phone: (416) 586-5523 *Facsimile:* (416) 586-5863
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - extensive data for all ornithology collections (skins, skeletons, nests, eggs, fluids)
 - data include (taxon, locality, measurements, breeding data, acquisition date)
- 3b. **Data acquisition methods:** Donations, field collection. Numerous collectors.
- 3c. **Geographic coverage:** Worldwide coverage concentrating on Canada (Ontario, British Columbia, Alberta), California and Arizona.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1820 to present.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hard disk, tape.
- 4b. **Database computer environment:** CHIN mainframe, PC's.
5. **Restrictions and conditions:** Current and sensitive research material will be withheld.
6. **Price information:** Not established.
7. **Corresponding printed sources:** Numerous reports have been prepared using this database (see data centre contact).
8. **Languages:** English.
9. **User aids available:** Data Dictionary published by CHIN.
10. **Keywords:** Biology; Birds; Great Lakes
11. **Additional information:** Specific historical collections focus on island avifauna.

Vertebrate Paleontology

ROM-0011-E

1. **Summary description:** Collection information describing fossils of vertebrate animals held by the Royal Ontario Museum.
- 2a. **Responsible organization:** Royal Ontario Museum
- 2b. **Database contact:** Mr. Kevin Seymour, Curatorial Assistant, Vertebrate Paleontology, Royal Ontario Museum, 100 Queen's Park, Toronto, Ont. M5C 2C6
Phone: (416) 586-5754 *Facsimile:* (416) 586-5863
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - depends on specimen nature (species identification, collecting/source information, location of find, geological age)
- 3b. **Data acquisition methods:** Excavation, exchange, purchase, donation. Specimen collection.
- 3c. **Geographic coverage:** Primarily Canada, some worldwide representation.
- 3d. **Geographic units of measure:** Province and state, country, nearest town; some latitude and longitude, UTM coordinates.
- 3e. **Period of record:** 450 million years ago to present.
- 3f. **Update frequency:** As specimens received.
- 4a. **Database storage format:** Hardcopy, hard disk.
- 4b. **Database computer environment:** CHIN PARIS mainframe. PC.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Data Dictionary published by CHIN.
8. **Languages:** English.
9. **User aids available:** Publications describing specimen nature and overall system.
10. **Keywords:** Fossils; Geology; International
11. **Additional information:**
 1. Also a small (3,800 record) collection of skeletons of modern animals used for comparison with fossil specimens.
 2. Presently about 43,800 fossil records in system.
 3. Data centre contact can also be reached through electronic mail on INTERNET: ROM!Kevin@zoo.toronto.edu.

MANITOBA



Manitoba Agriculture

Manitoba Crop Insurance Corporation GIS

MCI-0040-E

1. **Summary description:** An inventory of average yields for insured crops by municipality.
- 2a. **Responsible organization:** Manitoba Agriculture
- 2b. **Database contact:** M. R. Takeuch, Assistant Manager, Computer Services, Manitoba Agriculture, Norquay Building, 401 York Avenue, Winnipeg, Man.
Phone: (204) 945-3435 *Facsimile:* (204) 945-5024
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- crop yield
- 3b. **Data acquisition methods:** Survey. Questionnaire sent to insured producers.
- 3c. **Geographic coverage:** Manitoba.
- 3d. **Geographic units of measure:** Township, municipality, risk area, agency.
- 3e. **Period of record:** 1960 to 1992.
- 3f. **Update frequency:** Yearly.
- 4a. **Database storage format:** 8 mm tape.
- 4b. **Database computer environment:** INTERGRAPH 6450, INGRES 6.0, C, C++.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Agriculture; Geographic Information System; Prairies
11. **Additional information:** None.



Manitoba Cancer Treatment and Research Foundation

Manitoba Cancer Registry Sybase Database

MCR-0225-E

1. **Summary description:** Malignancy details are gathered for primary tumours.
- 2a. **Responsible organization:** Manitoba Cancer Treatment and Research Foundation
- 2b. **Database contact:** Ms. Jeri Kostyra, Supervisor, Cancer Registry, Manitoba Cancer Treatment and Research Foundation, 101 Olivia Street, Winnipeg, Man.
Phone: (204) 787-2157 *Facsimile:* (204) 783-6875

- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- tumour (site, morphology, treatment)
- death information
- other MAXON - Manitoba Extensible Oncology Network - variables (see data centre contact)
- 3b. **Data acquisition methods:** Medical reports. Data input by departmental staff.
- 3c. **Geographic coverage:** Manitoba.
- 3d. **Geographic units of measure:** Postal code.
- 3e. **Period of record:** 1937 to present.
- 3f. **Update frequency:** Daily.
- 4a. **Database storage format:** Hardcopy, 8mm tape, diskette.
- 4b. **Database computer environment:** PC, UNIX.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Annual reports/statistics.
8. **Languages:** English.
9. **User aids available:** MAXON coding manual; Canadian Cancer Registry Data Dictionary; Sybase Tools.
10. **Keywords:** Health; Human Health; Prairies
11. **Additional information:** Manitoba Cancer Registry supports a variety of operational, research and computer application projects.



Manitoba Environment

Air Quality Data

AQD-0042-E

1. **Summary description:** An inventory of pollutant levels taken from monitoring sites around the province.
- 2a. **Responsible organization:** Manitoba Environment
- 2b. **Database contact:** Mr. Don Regehr, Air Quality Management, Environmental Quality Standards, Manitoba Environment, Building 2, 139 Tuxedo Avenue, Winnipeg, Man. R3N 0H6
Phone: (204) 945-7001 *Facsimile:* (204) 945-5229
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- SO₂, CO, NO_x, NO₂, NO, O₃
- TSP plus constituents
- inhalable particulates
- COH
- 3b. **Data acquisition methods:** Monitoring. Various.
- 3c. **Geographic coverage:** Winnipeg, Brandon, Flin Flon, Thompson.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1987 to present.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, COBOL.
5. **Restrictions and conditions:** Some data may be confidential, the data centre will advise.
6. **Price information:** Dependent on the organization's policy.
7. **Corresponding printed sources:** Manitoba Ambient Air Quality Annual Reports.
8. **Languages:** English.
9. **User aids available:** None.

10. **Keywords:** Air quality; Contaminants; Prairies
 11. **Additional information:** All data from 1970 to 1986 available only on hardcopy.

Ammonia Database

AMD-0063-E

1. **Summary description:** An inventory of training certificates issued for the transportation of anhydrous ammonia.
- 2a. **Responsible organization:** Manitoba Environment
- 2b. **Database contact:** Mr. Randy Pelser, Environment Officer, Environmental Operations, Regional Operations - Winnipeg, Department of the Environment, Fort Osbourne Complex, 139 Tuxedo Avenue, Winnipeg, Man. R3N 0H6
Phone: (204) 945-7086 *Facsimile:* (204) 945-5229
- 2c. **Access mechanisms:** Through the responsible organization by written request.
- 3a. **Parameters measured:**
 - trainer
 - trainee
 - date
- 3b. **Data acquisition methods:** Monitoring. Trainer reports.
- 3c. **Geographic coverage:** Manitoba.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1990 to present.
- 3f. **Update frequency:** Daily.
- 4a. **Database storage format:** Hard disk.
- 4b. **Database computer environment:** Macintosh, FOXBASE PLUS.
5. **Restrictions and conditions:** Some data may be confidential, the data centre will advise.
6. **Price information:** Dependent on the organization's policy.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Prairies; Toxic chemicals; Transportation
11. **Additional information:** None.

Beach Monitoring

BEA-0091-E

1. **Summary description:** An inventory of sample collection information, microbiological data, calculations, field conditions, and beach usage.
- 2a. **Responsible organization:** Manitoba Environment
- 2b. **Database contact:** Chief, Water Quality Management, Environmental Quality Standards, Manitoba Environment, Fort Osbourne Complex, 139 Tuxedo Avenue, Winnipeg, Man. R3N 0H6
Phone: (204) 945-7033 *Facsimile:* (204) 945-5229
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - fecal coliform
 - Escherichia coli
 - enterococcus
 - numerous field observations (temperature, extent of beach usage)
- 3b. **Data acquisition methods:** Field collection of samples and subsequent submission to laboratory for bacteriological analysis.
- 3c. **Geographic coverage:** Southern Manitoba.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1984 to present.

- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC.
5. **Restrictions and conditions:** Some data may be confidential, the data centre will advise.
6. **Price information:** Dependent on the organization's policy.
7. **Corresponding printed sources:** See data centre contact.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Prairies; Recreation; Water quality
11. **Additional information:** None.

Biomonitoring

BIO-0087-E

1. **Summary description:** An inventory of metal and chlorinated organics in fish muscle tissue.
- 2a. **Responsible organization:** Manitoba Environment
- 2b. **Database contact:** Chief, Water Quality Management Section, Environmental Quality Standards Branch, Manitoba Environment, Building 2, 139 Tuxedo Avenue, Winnipeg, Man. R3N 0H6
Phone: (204) 945-7033 *Facsimile:* (204) 945-5229
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - total (Hg, Cu, Pb, Zn, A, Ni, Cd, Cr, Se)
 - chlorobenzenes (1,2,3,5 TCB, 1,2,3,4 TCB, HCB)
 - BHC 1,2,3
 - heptachlor
 - aldrin
 - heptachlor epoxide
 - chlordane (oxy, cis, trans)
 - dieldrin
 - endrin
 - p,p-DDE/DDD/DDT
 - methoxychlor
 - mirex
 - PCB (1254, 1260, total)
- 3b. **Data acquisition methods:** Field studies using gillnets.
- 3c. **Geographic coverage:** Manitoba.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1978 to 1992.
- 3f. **Update frequency:** Annually to five years for some locations.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** Macintosh, EXCEL.
5. **Restrictions and conditions:** Some data may be confidential, the data centre will advise.
6. **Price information:** Dependent on the organization's policy.
7. **Corresponding printed sources:** Fish Mercury Consumption Guidelines. Technical Reports.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Biota; Contaminants; Prairies
11. **Additional information:** None.

Community Inventory Database

CID-0049-E

1. **Summary description:** An inventory of operational and managerial information regarding all communities using public water supply systems.
- 2a. **Responsible organization:** Manitoba Environment

- 2b. Database contact:** Mr. Don Rocan, Municipal and Industrial Approvals, Environmental Management Division, Manitoba Environment, Building 2, 139 Tuxedo Avenue, Winnipeg, Man. R3N 0H6
Phone: (204) 945-7010 *Facsimile:* (204) 945-5229
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - information regarding the owner of the utility
 - plant ID numbers
 - community numbers
- 3b. Data acquisition methods:** Monitoring of water treatment plants.
- 3c. Geographic coverage:** Manitoba.
- 3d. Geographic units of measure:** Municipality, town, village, city.
- 3e. Period of record:** 1976 to present.
- 3f. Update frequency:** Continually.
- 4a. Database storage format:** Hard disk, tape.
- 4b. Database computer environment:** Macintosh, FOXBASE PLUS.
- 5. Restrictions and conditions:** Some data may be confidential, the data centre will advise.
- 6. Price information:** Dependent on the organization's policy.
- 7. Corresponding printed sources:** Individual reports and printouts.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Engineering; Municipalities; Water
- 11. Additional information:** None.

Environmental Officer Site Inventory

EOS-0056-E

- 1. Summary description:** An inventory of establishments such as petroleum storage sites, waste disposal grounds, PCB sites, pesticide container depots food establishments, who are licensed under the Environment Act in the Eastern - Interlake region.
- 2a. Responsible organization:** Manitoba Environment
- 2b. Database contact:** Ms. Rita Cote, Regional Operations - Eastern - Interlake, Environmental Operations Division, Manitoba Environment, Town Square, 284 Reimer Avenue, Steinbach, Man. R0A 2A0
Phone: (204) 326-3468 *Facsimile:* (204) 326-2472
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - establishment (name, location, permit numbers, date of last inspection)
 - contact person (telephone number)
 - reference numbers
- 3b. Data acquisition methods:** Licensing. Manually collected from file information.
- 3c. Geographic coverage:** Towns and rural municipalities in the Eastern - Interlake region.
- 3d. Geographic units of measure:** Legal descriptions.
- 3e. Period of record:** 1990 to present.
- 3f. Update frequency:** Daily if required.
- 4a. Database storage format:** Diskette.
- 4b. Database computer environment:** PC, EXCEL.
- 5. Restrictions and conditions:** Some data may be confidential, the data centre will advise.
- 6. Price information:** Dependent on the organization's policy.
- 7. Corresponding printed sources:** None.

- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Engineering; Prairies; Regulation
- 11. Additional information:** None.

Field Inspection Reports Database (Drinking Water)

FIR-0047-E

- 1. Summary description:** An inventory of facility inspection data gathered by inspectors under the Drinking Water Program.
- 2a. Responsible organization:** Manitoba Environment
- 2b. Database contact:** Mr. Don Rocan, Municipal and Industrial Approvals, Environmental Management Division, Manitoba Environment, Building 2, 139 Tuxedo Avenue, Winnipeg, Man. R3N 0H6
Phone: (204) 945-7010 *Facsimile:* (204) 945-5229
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - infrastructure (condition, deficiencies)
 - plant ID numbers
 - community numbers
- 3b. Data acquisition methods:** Inspections under the Drinking Water Program.
- 3c. Geographic coverage:** Manitoba.
- 3d. Geographic units of measure:** Municipal jurisdiction, town, village, city.
- 3e. Period of record:** 1989 to present.
- 3f. Update frequency:** Ongoing.
- 4a. Database storage format:** Hardcopy, hard disk.
- 4b. Database computer environment:** Macintosh, FOXBASE PLUS.
- 5. Restrictions and conditions:** Some data may be confidential, the data centre will advise.
- 6. Price information:** Dependent on the organization's policy.
- 7. Corresponding printed sources:** Inventories.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Engineering; Municipalities; Water
- 11. Additional information:** None.

Industrial Wastewater Database

IWD-0053-E

- 1. Summary description:** An inventory of analytical results from monitoring industrial wastewater discharges.
- 2a. Responsible organization:** Manitoba Environment
- 2b. Database contact:** Mr. Clemens Moche, P.Eng., Municipal and Industrial Approvals, Environmental Management Division, Manitoba Environment, Building 2, 139 Tuxedo Avenue, Winnipeg, Man. R3N 0H6
Phone: (204) 945-7013 *Facsimile:* (204) 945-5229
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - operation
 - sample (date, type)
 - differentiation between company reported data, provincially collected data, federally collected data
 - physical/chemical/heavy metal
 - rates (discharge, production)
- 3b. Data acquisition methods:** Sampling. Laboratory analytical results, flow measurements devices.

- 3c. Geographic coverage:** All licensed industrial sites in Manitoba, excluding those within Winnipeg and those discharging into municipal sewers.
- 3d. Geographic units of measure:** Latitude and longitude, UTM coordinates.
- 3e. Period of record:** 1977 to 1987.
- 3f. Update frequency:** Indefinitely terminated.
- 4a. Database storage format:** Hardcopy, magnetic tape.
- 4b. Database computer environment:** IBM mainframe.
- 5. Restrictions and conditions:** Some data may be confidential, the data centre will advise.
- 6. Price information:** Dependant on the organization's policy.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** Limited prompting by the database program.
- 10. Keywords:** Contaminants; Effluents; Prairies
- 11. Additional information:** The database consists of company reported data, provincial and federal sampling data.

Inspect (Dangerous Goods and Wastes)

INS-0064-E

- 1. Summary description:** An inventory of information collected from dangerous goods/hazardous waste inspections.
- 2a. Responsible organization:** Manitoba Environment
- 2b. Database contact:** Mr. Randy Pelser, Regional Operations - Winnipeg, Environmental Operations, Manitoba Environment, Fort Osbourne Complex, 139 Tuxedo Avenue, Winnipeg, Man. R3N 0H6
Phone: (204) 945-7086 Facsimile: (204) 945-5229
- 2c. Access mechanisms:** Through the responsible organization by written request.
- 3a. Parameters measured:**
- inspection results
- 3b. Data acquisition methods:** Monitoring. Inspection reports from environmental officers.
- 3c. Geographic coverage:** Manitoba.
- 3d. Geographic units of measure:** Not applicable.
- 3e. Period of record:** 1991 to present.
- 3f. Update frequency:** Continually.
- 4a. Database storage format:** Hard disk.
- 4b. Database computer environment:** Macintosh, FOXBASE PLUS.
- 5. Restrictions and conditions:** Some data may be confidential, the data centre will advise.
- 6. Price information:** Dependent on the organization's policy.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Environmental Science; Prairies; Toxic chemicals
- 11. Additional information:** None.

Manifest (Hazardous Waste)

MAN-0065-E

- 1. Summary description:** An inventory of information collected from hazardous waste shipping documents.
- 2a. Responsible organization:** Manitoba Environment
- 2b. Database contact:** Mr. Randy Pelser, Regional Operations - Winnipeg, Environmental Operations, Manitoba Environment,

Fort Osbourne Complex, 139 Tuxedo Avenue, Winnipeg, Man. R3N 0H6

Phone: (204) 945-7086 Facsimile: (204) 945-5229

- 2c. Access mechanisms:** Through the responsible organization by written request.
- 3a. Parameters measured:**
- waste detail
- amount (in, out)
- dates
- shipper
- 3b. Data acquisition methods:** Monitoring hazardous waste generators and receivers. Manifest forms.
- 3c. Geographic coverage:** Manitoba.
- 3d. Geographic units of measure:** Not applicable.
- 3e. Period of record:** 1988 to present.
- 3f. Update frequency:** Daily.
- 4a. Database storage format:** Hard disk.
- 4b. Database computer environment:** Macintosh, FOXBASE PLUS.
- 5. Restrictions and conditions:** Some data may be confidential, the data centre will advise.
- 6. Price information:** Dependant on the organization's policy.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Prairies; Transportation; Waste
- 11. Additional information:** None.

Manitoba Network for Precipitation Collection

MNP-0039-E

- 1. Summary description:** An inventory of the chemical and physical properties of precipitation taken from precipitation collection sites across the province.
- 2a. Responsible organization:** Manitoba Environment
- 2b. Database contact:** Mr. Bert Krawchuck, Air Quality Analyst, Air Quality Management, Environmental Quality Standards, Manitoba Environment, Building 2, 139 Tuxedo Avenue, Winnipeg, Man. R3N 0H6
Phone: (204) 945-7041 Facsimile: (204) 945-5229
Mr. Dave Bezak Phone: (204) 945-7044
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- pH
- concentration (Ca+2, Mg+2, Na+, K+, NH4+ (as N), NO₂, NO₃ (as NO), SO₄²⁻ and Cl⁻)
- rainfall (mm)
- volume (mL)
- ion content
- date
- 3b. Data acquisition methods:** Monitoring. M.I.C. B-200 precipitation collector.
- 3c. Geographic coverage:** Brocet, Winnipeg, Gillam, Island Lake, Norway House, Pointe de Bois.
- 3d. Geographic units of measure:** Location.
- 3e. Period of record:** 1980 to present. Varies for each site (see 11).
- 3f. Update frequency:** Bi-weekly.
- 4a. Database storage format:** Diskette.
- 4b. Database computer environment:** PC, FOXPRO, BDASE IV.
- 5. Restrictions and conditions:** Some data may be confidential, the data centre will advise.
- 6. Price information:** Dependent on the organization's policy.

7. **Corresponding printed sources:** Manitoba Network for Precipitation Collection Data Summary, available for the years 1983, 1984, 1985/7, 1991.
8. **Languages:** English and French.
9. **User aids available:** None.
10. **Keywords:** Acid precipitation; Environmental Science; Prairies
11. **Additional information:** Period of data collection at each site follows: Brochet, 84/02/11 to 87/12/08, and 91/01/16 to present; Winnipeg (FOC), 85/10/03 to 87/12/11; Gillam, 84/01/02 to 87/12/30; Island Lake, 80/10/17 to 87/10/05, and 91/01/11 to present; Norway House, 80/10/30 to 88/02/22; Pointe du Bois, 84/01/05 to 87/12/11, and 90/11/04 to present.

Noise Monitoring Database

NMD-0045-E

1. **Summary description:** An inventory of noise survey results of a 24 hour traffic noise monitoring station at complaint sites.
- 2a. **Responsible organization:** Manitoba Environment
- 2b. **Database contact:** Mr. Kevin Reeve, Environment Officer, Environmental Operations, Division, Environmental Quality Standards, Manitoba Environment, Building 2, 139 Tuxedo Avenue, Winnipeg, Man. R3N 0H6
Phone: (204) 945-7019 *Facsimile:* (204) 945-5229
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- hourly sound levels (increments of L01, L10, L90, L99)
- 3b. **Data acquisition methods:** Noise survey results from 24 hour monitoring stations.
- 3c. **Geographic coverage:** Manitoba.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1974 to present.
- 3f. **Update frequency:** Immediate upon completion of survey.
- 4a. **Database storage format:** Hard disk, diskette.
- 4b. **Database computer environment:** PC, DBASE IV.
5. **Restrictions and conditions:** Some data may be confidential, the data centre will advise.
6. **Price information:** Dependent on the organization's policy.
7. **Corresponding printed sources:** None.
8. **Languages:** English and French.
9. **User aids available:** None.
10. **Keywords:** Noise; Prairies; Transportation
11. **Additional information:** None.

Pesticide Container Depots

PCD-0060-E

1. **Summary description:** An inventory of site, location, registration and file number, assigned officer, of all registered pesticide container depots in the region.
- 2a. **Responsible organization:** Manitoba Environment
- 2b. **Database contact:** Ms. Val Cram, Regional Operations - Park West (South), Environmental Operations Division, Manitoba Environment, Scotia Towers, 1011 Rosser Avenue, Brandon, Man. R7A 0L5
Phone: (204) 726-6064 *Facsimile:* (204) 726-6567
Ms. Linda Shannon, Regional Operations - Park West (North), 27 - 2nd Avenue Southwest, Dauphin, Man. R7N 3E5
Phone: (204) 622-2030 *Facsimile:* (204) 638-7201
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- site (depot, location)

- status (closed, in compliance, non-compliance, to be closed, to be upgraded)
- registration number
- file number
- assigned officer
- operator (address, phone)

- 3b. **Data acquisition methods:** Files. Environment Officer's inspection check list.
- 3c. **Geographic coverage:** Park-West region of Manitoba.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** Macintosh, EXCEL.
5. **Restrictions and conditions:** Some data may be confidential, the data centre will advise.
6. **Price information:** Dependent on the organization's policy.
7. **Corresponding printed sources:** Correspondence.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Agriculture; Pesticides; Prairies
11. **Additional information:** None.

PETSTOR (Petroleum Storage) - History

PET-0069-E

1. **Summary description:** An inventory of information (installation and removal date, tank capacity) for sites with petroleum products storage tanks under MR 97/88R.
- 2a. **Responsible organization:** Manitoba Environment
- 2b. **Database contact:** Mr. Maurice Mazerolle, Manager, Gasoline Program, Manitoba Environment, Building 2, 139 Tuxedo Avenue, Winnipeg, Man. R3N 0H6
Phone: (204) 945-7110 *Facsimile:* (204) 945-5229
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- tanks (number, quantity, type - above/under/overhead)
- comments
- 3b. **Data acquisition methods:** Surveys and monitoring. Registration Permit and Inspection as per M.R. 97/88R.
- 3c. **Geographic coverage:** Manitoba.
- 3d. **Geographic units of measure:** Regional.
- 3e. **Period of record:** 1976 to present.
- 3f. **Update frequency:** Daily.
- 4a. **Database storage format:** Diskettes.
- 4b. **Database computer environment:** Macintosh, FOXBASE PLUS.
5. **Restrictions and conditions:** Some data may be confidential, the data centre will advise.
6. **Price information:** Dependent on the organization's policy.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Energy; Fuel; Prairies
11. **Additional information:** None.

PETSTOR (Petroleum Storage) - Inspect

PET-0071-E

1. **Summary description:** An inventory of inspection information for sites with petroleum products storage tanks.

- 2a. Responsible organization:** Manitoba Environment
- 2b. Database contact:** Mr. Maurice Mazerolle, Manager, Gasoline Program, Manitoba Environment, Building 2, 139 Tuxedo Avenue, Winnipeg, Man. R3N 0H6
Phone: (204) 945-7110 Facsimile: (204) 945-5229
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- site (name, location)
 - date (inspection, warning/summons, investigation)
 - comments
- 3b. Data acquisition methods:** Survey and monitoring. Registration Permit and Inspection as per MR 97/88R.
- 3c. Geographic coverage:** Manitoba.
- 3d. Geographic units of measure:** Regional.
- 3e. Period of record:** 1976 to present.
- 3f. Update frequency:** Daily.
- 4a. Database storage format:** Diskette.
- 4b. Database computer environment:** Macintosh, FOXBASE PLUS.
- 5. Restrictions and conditions:** Some data may be confidential, the data centre will advise.
- 6. Price information:** Dependent on the organization's policy.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Energy; Fuel; Prairies
- 11. Additional information:** None.

PETSTOR (Petroleum Storage) - Sites

PET-0070-E

- 1. Summary description:** An inventory of information (installation date, tank capacity) for sites with petroleum products storage tanks registered in accordance with MR 97/88R.
- 2a. Responsible organization:** Manitoba Environment
- 2b. Database contact:** Mr. Maurice Mazerolle, Manager, Gasoline Program, Manitoba Environment, Building 2, 139 Tuxedo Avenue, Winnipeg, Man. R3N 0H6
Phone: (204) 945-7110 Facsimile: (204) 945-5229
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- owner/operator
 - company (address, location)
 - retail/bulk
 - weekly/daily
- 3b. Data acquisition methods:** Survey and monitoring. Registration Permit and Inspection as per MR 97/88R.
- 3c. Geographic coverage:** Manitoba.
- 3d. Geographic units of measure:** Regional.
- 3e. Period of record:** 1976 to present.
- 3f. Update frequency:** Daily.
- 4a. Database storage format:** Diskette.
- 4b. Database computer environment:** Macintosh, FOXBASE PLUS.
- 5. Restrictions and conditions:** Some data may be confidential, the data centre will advise.
- 6. Price information:** Dependent on the organization's policy.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.

- 10. Keywords:** Energy; Fuel; Prairies
- 11. Additional information:** None.

Post Seasonal Report Data

PSR-0055-E

- 1. Summary description:** An inventory of pesticide users across the province.
- 2a. Responsible organization:** Manitoba Environment
- 2b. Database contact:** Mr. Ken Plews, Municipal and Industrial Approvals, Environmental Management Division, Manitoba Environment, Building 2, 139 Tuxedo Avenue, Winnipeg, Man. R3N 0H6
Phone: (204) 945-7067 Facsimile: (204) 945-5229
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- pesticide (name, amount used)
 - user (location)
- 3b. Data acquisition methods:** Monitoring. Information gathered from post seasonal reports.
- 3c. Geographic coverage:** Manitoba.
- 3d. Geographic units of measure:** Row, school divisions, municipality, government department, recreation facilities.
- 3e. Period of record:** 1985 to present.
- 3f. Update frequency:** Annually.
- 4a. Database storage format:** Diskette.
- 4b. Database computer environment:** PC, FOXBASE PLUS.
- 5. Restrictions and conditions:** Some data may be confidential, the data centre will advise.
- 6. Price information:** Dependent on the organization's policy.
- 7. Corresponding printed sources:** As required.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Contaminants; Pesticides; Prairies
- 11. Additional information:** Information is limited to pesticide use permit holders.

Register (Hazardous Waste)

REG-0076-E

- 1. Summary description:** An inventory of site information for companies registered as hazardous waste generators, carriers and/or receivers.
- 2a. Responsible organization:** Manitoba Environment
- 2b. Database contact:** Mr. Randy Pelser, Regional Operations - Winnipeg, Environmental Operations, Manitoba Environment, Fort Osborne Complex, 139 Tuxedo Avenue, Winnipeg, Man. R3N 0H6
Phone: (204) 945-7086 Facsimile: (204) 945-5229
- 2c. Access mechanisms:** Through the responsible organization by written request.
- 3a. Parameters measured:**
- company detail
 - waste detail
- 3b. Data acquisition methods:** Monitoring. Registration forms.
- 3c. Geographic coverage:** Manitoba.
- 3d. Geographic units of measure:** Not applicable.
- 3e. Period of record:** 1986 to present.
- 3f. Update frequency:** As needed.
- 4a. Database storage format:** Hard disk.
- 4b. Database computer environment:** Macintosh, FOXBASE PLUS.

5. **Restrictions and conditions:** Some data may be confidential, the data centre will advise.
6. **Price information:** Dependent on the organization's policy.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Contaminants; Prairies; Waste
11. **Additional information:** None.

Shellmouth Reservoir/Assiniboine River

SHE-0088-E

1. **Summary description:** An inventory of water quality data for the Shellmouth Reservoir/Assiniboine River from 1991-1993.
- 2a. **Responsible organization:** Manitoba Environment
- 2b. **Database contact:** Chief, Water Quality Management Section, Environmental Quality Standards, Manitoba Environment, Building 2, 139 Tuxedo Avenue, Winnipeg, Man. R3N 0H6
Phone: (204) 945-7033 Facsimile: (204) 945-5229
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - fecal coliform
 - nutrients
 - metals
 - physical variables
 - general chemistry
- 3b. **Data acquisition methods:** Depth sampler, profile monitor. Kemnerer Sampler, Hydrolab Profile Monitor.
- 3c. **Geographic coverage:** Assiniboine River Basin at the Manitoba/Saskatchewan River.
- 3d. **Geographic units of measure:** Assiniboine River Basin.
- 3e. **Period of record:** 1991 to 1993. Data collected from 10 April, 1991 to 28 April, 1993.
- 3f. **Update frequency:** No follow up planned at this time.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** Macintosh, EXCEL.
5. **Restrictions and conditions:** Some data may be confidential, the data centre will advise.
6. **Price information:** Dependent on the organization's policy.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Contaminants; Prairies; Water quality
11. **Additional information:** None.

Special Aquatic Studies

SAS-0085-E

1. **Summary description:** An inventory of water quality data from site sampling.
- 2a. **Responsible organization:** Manitoba Environment
- 2b. **Database contact:** Chief, Water Quality Management Section, Environmental Quality Standards Branch, Manitoba Environment, Building 2, 139 Tuxedo Avenue, Winnipeg, Man. R3N 0H6
Phone: (204) 945-7033 Facsimile: (204) 945-5229
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - nutrients
 - metals (only in some studies)
 - general chemistry (only in some studies)

- 3b. **Data acquisition methods:** Field sampling. Sampling by either the responsible organization or local volunteers.
- 3c. **Geographic coverage:** Manitoba.
- 3d. **Geographic units of measure:** Latitude and longitude. All sites to minutes, some to seconds.
- 3e. **Period of record:** 1992 to present.
- 3f. **Update frequency:** Approximately every 4 months or when data becomes available.
- 4a. **Database storage format:** Hard disk.
- 4b. **Database computer environment:** Macintosh, EXCEL.
5. **Restrictions and conditions:** Some data may be confidential, the data centre will advise.
6. **Price information:** Dependent on the organization's policy.
7. **Corresponding printed sources:** Water Quality Management Reports.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Environmental Science; Prairies; Water quality
11. **Additional information:** None.

Stack Sampling Database

SSD-0044-E

1. **Summary description:** An inventory of stack sampling data and emission rates from air emission monitoring sites across the province.
- 2a. **Responsible organization:** Manitoba Environment
- 2b. **Database contact:** Mr. Kevin Reeve, Environment Office, Environmental Operations Division, Environmental Quality Standards, Manitoba Environment, Building 2, 139 Tuxedo Avenue, Winnipeg, Man. R3N 0H6
Phone: (204) 945-7019 Facsimile: (204) 945-5229
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - CO, CO₂, O₂, SO₂
 - sulfuric acid mist
 - lead
 - particulates
 - temperature
- 3b. **Data acquisition methods:** Survey. Stack sampling data and emission rates from air emission monitoring sites.
- 3c. **Geographic coverage:** Manitoba.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1974 to present.
- 3f. **Update frequency:** As survey forms completed.
- 4a. **Database storage format:** Hard disk, diskette.
- 4b. **Database computer environment:** PC, EXCEL.
5. **Restrictions and conditions:** Some data may be confidential, the data centre will advise.
6. **Price information:** Dependent on the organization's policy.
7. **Corresponding printed sources:** RDIS.
8. **Languages:** English and French.
9. **User aids available:** None.
10. **Keywords:** Atmosphere; Contaminants; Emissions
11. **Additional information:** None.

Wastes (Hazardous Waste)

WAS-0079-E

1. **Summary description:** An inventory of waste types and quantities for sites registered as hazardous waste generators.
- 2a. **Responsible organization:** Manitoba Environment

2b. Database contact: Mr. Randy Pelser, Regional Operations - Winnipeg, Environmental Operations, Manitoba Environment, Fort Osbourne Complex, 139 Tuxedo Avenue, Winnipeg, Man. R3N 0H6

Phone: (204) 945-7086 *Facsimile:* (204) 945-5229

2c. Access mechanisms: Through the responsible organization by written request.

3a. Parameters measured:

- waste details
- volumes

3b. Data acquisition methods: Monitoring of registration forms.

3c. Geographic coverage: Manitoba.

3d. Geographic units of measure: Not applicable.

3e. Period of record: 1986 to present.

3f. Update frequency: Daily.

4a. Database storage format: Hard disk.

4b. Database computer environment: Macintosh, FOXBASE PLUS.

5. Restrictions and conditions: Some data may be confidential, the data centre will advise.

6. Price information: Dependent on the organization's policy.

7. Corresponding printed sources: None.

8. Languages: English.

9. User aids available: None.

10. Keywords: Contaminants; Prairies; Waste

11. Additional information: None.

Water Chemistry Database

WCD-0048-E

1. Summary description: Chemical water quality for public water systems.

2a. Responsible organization: Manitoba Environment

2b. Database contact: Mr. Don Rocan, Municipal and Industrial Approvals, Environmental Management Division, Manitoba Environment, Building 2, 139 Tuxedo Avenue, Winnipeg, Man. R3N 0H6

Phone: (204) 945-7010 *Facsimile:* (204) 945-5229

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- chemicals (inorganic, organic)
- trihalomethanes
- in accordance with the guidelines for Canadian Drinking Water Quality
- plant ID numbers
- community numbers

3b. Data acquisition methods: Monitoring and survey of water treatment plants.

3c. Geographic coverage: Manitoba.

3d. Geographic units of measure: Municipality, town, village, city.

3e. Period of record: 1976 to present.

3f. Update frequency: Annually.

4a. Database storage format: Hard disk, tape.

4b. Database computer environment: Macintosh, FOXBASE PLUS.

5. Restrictions and conditions: Some data may be confidential, the data centre will advise.

6. Price information: Dependent on the organization's policy.

7. Corresponding printed sources: Individual reports, annual and composite summaries.

8. Languages: English.

9. User aids available: None.

10. Keywords: Environmental Science; Prairies; Water quality

11. Additional information: None.

Water Plant Chemical and Bacteriological Data

WPC-0061-E

1. Summary description: An inventory of name, location, chemical and bacteriological data, from municipal waste water systems in the region.

2a. Responsible organization: Manitoba Environment

2b. Database contact: Ms. Val Cram, Regional Operations - Park West (South), Environmental Operations Division, Manitoba Environment, Scotia Towers, 1011 Rosser Avenue, Brandon, Man. R7A 0L5

Phone: (204) 726-6064 *Facsimile:* (204) 726-6567

Ms. Linda Shannon, Regional Operations - Park West (North), 27 - 2nd Avenue Southwest, Dauphin, Man. R7N 3E5

Phone: (204) 622-2030 *Facsimile:* (204) 638-7201

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- owner (name, location, type of system)
- chemical data
- bacteriological data
- samples received (submissions for analysis)
- assigned officer

3b. Data acquisition methods: Files. Submissions received from plants and data entered by departmental staff.

3c. Geographic coverage: Park-West region of Manitoba.

3d. Geographic units of measure: Town, village.

3e. Period of record: Not applicable.

3f. Update frequency: Annually.

4a. Database storage format: Diskette.

4b. Database computer environment: Macintosh, EXCEL.

5. Restrictions and conditions: Some data may be confidential, the data centre will advise.

6. Price information: Dependent on the organization's policy.

7. Corresponding printed sources: None.

8. Languages: English.

9. User aids available: None.

10. Keywords: Engineering; Prairies; Water quality

11. Additional information: None.

Water Quality Monitoring

WQM-0089-E

1. Summary description: An inventory of water quality data from 1,000 sites around the province.

2a. Responsible organization: Manitoba Environment

2b. Database contact: Chief, Water Quality Management Section, Environmental Quality Standards Branch, Manitoba Environment, Building 2, 139 Tuxedo Avenue, Winnipeg, Man. R3N 0H6

Phone: (204) 945-7033 *Facsimile:* (204) 945-5229

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- approximately 70 variables (nutrients, trace elements, industrial organics, agricultural organics, physical variables, bacteria)

3b. Data acquisition methods: Field collection of samples, subsequent submission to several laboratories for analysis. Analysis of several variables is done in the field.

- 3c. **Geographic coverage:** Manitoba.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1965 to present.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Hardcopy, diskettes.
- 4b. **Database computer environment:** PC.
- 5. **Restrictions and conditions:** Some data may be confidential, the data centre will advise.
- 6. **Price information:** Dependent on the organization's policy.
- 7. **Corresponding printed sources:** Numerous, see data centre contact.
- 8. **Languages:** English.
- 9. **User aids available:** None.
- 10. **Keywords:** Hydrology; Prairies; Water quality
- 11. **Additional information:** None.



Manitoba Highways and Transportation

Highway Inventory

HIG-0231-E

- 1. **Summary description:** A highway inventory which includes geometrics, surface structure, physical features, and traffic data. This information is used to create an inventory of provincial trunk highways and provincial road systems.
- 2a. **Responsible organization:** Manitoba Highways and Transportation
- 2b. **Database contact:** Mr. Don Bodnaruk, Programming Technologist, Planning, Design and Land Surveys Division, Manitoba Highways and Transportation, 14th Floor, 215 Garry Street, Winnipeg, Man. R3C 3Z1
Phone: (204) 945-7111 *Facsimile:* (204) 945-0593
- 2c. **Access mechanisms:** Some data confidential, written authorization needed.
- 3a. **Parameters measured:**
 - control section (region number, highway number, section number)
- 3b. **Data acquisition methods:** Monitoring, survey, collection. Field measurements, panel surveys, regional reports, maps, books.
- 3c. **Geographic coverage:** All of Manitoba except Churchill.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1962 to present. System went metric in 1986.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy. magnetic disk/tape.
- 4b. **Database computer environment:** IBM mainframe, DEC minicomputer, OSMVS, INGRES.
- 5. **Restrictions and conditions:** None.
- 6. **Price information:** There is a cost recovery component.
- 7. **Corresponding printed sources:** None.
- 8. **Languages:** English.
- 9. **User aids available:** Documentation (user's manual, data description, coding manual) available from Mr. Roy Ward (see 11).
- 10. **Keywords:** Prairies; Roads; Transportation
- 11. **Additional information:**
 - 1. The database contains approximately 3,200 records and 600 attributes per record.

- 2. Construction and pavement rating entered after construction season.
- 3. The Highway Inventory is directly related to the Construction Management System.
- 4. User's manual, data description and coding manual are available from Mr. Roy Ward, Computer Services, Manitoba Highways and Transportation, 12th Floor, 215 Garry Street, Winnipeg, Man. R3C 3Z1. *Phone:* (204) 945-6624.

Motor Vehicle System

MVS-0186-E

- 1. **Summary description:** A database containing the registrations of all classes of motor vehicles.
- 2a. **Responsible organization:** Manitoba Highways and Transportation
- 2b. **Database contact:** Mr. B. Hewitt, Director of Licensing, Driver and Vehicle Licensing, Manitoba Highways and Transportation, 1075 Portage Avenue, Winnipeg, Man. R3G 0S1
Phone: (204) 945-7376 *Facsimile:* (204) 945-2018
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - name (address, street, postal code)
 - vehicle (description, registration classification, license plate number)
- 3b. **Data acquisition methods:** From the registration of all classes of motor vehicle.
- 3c. **Geographic coverage:** Manitoba.
- 3d. **Geographic units of measure:** Postal code or block.
- 3e. **Period of record:** Current.
- 3f. **Update frequency:** Weekly.
- 4a. **Database storage format:** Magnetic tape or diskette.
- 4b. **Database computer environment:** Mainframe.
- 5. **Restrictions and conditions:** Some restrictions apply. Can not obtain names or addresses.
- 6. **Price information:** \$7.00 per search.
- 7. **Corresponding printed sources:** Annual reports of the number of registered vehicles by class. Fuel consumption report produced for Statistics Canada.
- 8. **Languages:** English.
- 9. **User aids available:** None.
- 10. **Keywords:** Prairies; Transportation; Vehicles
- 11. **Additional information:** An agreement can be signed thereby allowing full access to the data (names and addresses).

Northern Airports Activity Summary

NAA-0283-E

- 1. **Summary description:** The Northern Airports Activity Summary contains data on aircraft movements, number of passengers and freight in tonnes.
- 2a. **Responsible organization:** Manitoba Highways and Transportation
- 2b. **Database contact:** Mr. John Hosang, Assistant Deputy Minister, Highways, Manitoba Highways and Transportation, 15th Floor, 215 Garry Street, Winnipeg, Man. R3C 3Z1
Phone: (204) 945-3772 *Facsimile:* (204) 945-5539
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - year
 - freight (tonnes)
 - number (of passengers, of aircraft movements)

- 3b. **Data acquisition methods:** Reports input by departmental staff.
- 3c. **Geographic coverage:** Northern Manitoba.
- 3d. **Geographic units of measure:** Airports.
- 3e. **Period of record:** 1982 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** Not applicable.
- 5. **Restrictions and conditions:** None.
- 6. **Price information:** No charge.
- 7. **Corresponding printed sources:** None.
- 8. **Languages:** English.
- 9. **User aids available:** None.
- 10. **Keywords:** Aviation; North; Transportation
- 11. **Additional information:** None.

Traffic Data

TRA-0230-E

- 1. **Summary description:** An inventory of traffic data that is used in order to plan and design highways.
- 2a. **Responsible organization:** Manitoba Highways and Transportation
- 2b. **Database contact:** Mr. Heinz Lausmann, Systems Planning Engineer, Planning Design and Land Surveys, Manitoba Highways and Transportation, 14th Floor, 215 Garry Street, Winnipeg, Man. R3C 3Z1
Phone: (204) 945-2664 *Facsimile:* (204) 945-0593
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- traffic counts
- 3b. **Data acquisition methods:** Monitoring and surveys. Field measurements and remote sensing.
- 3c. **Geographic coverage:** All of Manitoba except Churchill and other points not connected to the highway system.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1960 to 1992.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, maps, diskette.
- 4b. **Database computer environment:** PC, LOTUS 123.
- 5. **Restrictions and conditions:** None.
- 6. **Price information:** No charge.
- 7. **Corresponding printed sources:** None.
- 8. **Languages:** English.
- 9. **User aids available:** None.
- 10. **Keywords:** Prairies; Transportation; Vehicles
- 11. **Additional information:** None.



Manitoba Industry Trade and Tourism

Manitoba Land Related Information System

MLR-0034-E

- 1. **Summary description:** Integrated database (GIS) of land related information.

- 2a. **Responsible organization:** Manitoba Industry Trade and Tourism
- 2b. **Database contact:** Mr. Bruce Graham, Linnet Graphics, Winnipeg, Man.
Phone: (204) 957-7566
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- farming practices
- crop (varieties, yields)
- property assessment
- water (quality, well logs)
- soils
- 3b. **Data acquisition methods:** Monitoring, surveys. Farming practices, crop variety and yield data - supplied by Manitoba Crop Insurance from reports filed by farmers (approximately 60 percent of the farmers in Manitoba). Property assessment data - supplied by property assessors; used to determine possible locations of hazardous material or determining the sewage treatment from private homes. Water quality data - supplied by Ward Lab from samples tested by government monitoring stations and from private individuals. Water well log data - supplied by the Department of Natural Resources. Information obtained from water well drillers. Soils data - supplied by Soil Survey Branch.
- 3c. **Geographic coverage:** Manitoba.
- 3d. **Geographic units of measure:** Varies by data element.
- 3e. **Period of record:** Varies depending on components.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hard disk.
- 4b. **Database computer environment:** RS 6000, GEOVISION GIS.
- 5. **Restrictions and conditions:** Subject to negotiation.
- 6. **Price information:** Not established.
- 7. **Corresponding printed sources:** None.
- 8. **Languages:** English.
- 9. **User aids available:** None.
- 10. **Keywords:** Geographic Information System; Geography; Prairies
- 11. **Additional information:** None.



Manitoba Natural Resources

Fisheries Habitat Inventory and Classification System

FHI-0220-E

- 1. **Summary description:** Summarizes fish, fishing and fish habitat information for land use planning and the guidance of fisheries inventory needs.
- 2a. **Responsible organization:** Manitoba Natural Resources
- 2b. **Database contact:** Mr. Rich Januszcz, Fisheries Branch, Manitoba Natural Resources, P.O. Box 20, 1495 James Street, Winnipeg, Man. R3H 0W9
Phone: (204) 945-7801 *Facsimile:* (204) 948-2308
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- watershed (body, unit)
- biology (species list)
- access to waterbody
- fishing allocation (sport, commercial)

- present general fisheries use
- sportfishing lodges list
- angler survey
- commercial (fishing regulations, summary)
- water quality
- hydrology
- land use (agricultural, forestry)
- habitat condition
- literature cited
- historic improvements
- classification

3b. Data acquisition methods: Surveys, files, literature, staff interviews. Ground, field and office surveys.

3c. Geographic coverage: Manitoba.

3d. Geographic units of measure: Watershed.

3e. Period of record: 1969 to present.

3f. Update frequency: Irregularly and infrequently.

4a. Database storage format: Hard disk, diskette.

4b. Database computer environment: PC, PARADOX.

5. Restrictions and conditions: None.

6. Price information: No charge.

7. Corresponding printed sources: None.

8. Languages: English.

9. User aids available: User's guide.

10. Keywords: Fish; Prairies; Wildlife

11. Additional information: None.

GWDATA (Groundwater)

GWD-0237-E

1. Summary description: An inventory of water well levels and water well temperatures in Manitoba.

2a. Responsible organization: Manitoba Natural Resources

2b. Database contact: Mr. Chris Romano, Groundwater Technician, Groundwater Management, Section, Water Resources Branch, Manitoba Natural Resources, 1577 Dublin Avenue, Winnipeg, Man. R3E 3J5

Phone: (204) 945-7409 *Facsimile:* (204) 945-7419

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:
- groundwater (levels, temperatures)

3b. Data acquisition methods: Automatic water level recorders. Stevens recorder.

3c. Geographic coverage: Manitoba.

3d. Geographic units of measure: Not applicable.

3e. Period of record: 1960 to present.

3f. Update frequency: Weekly.

4a. Database storage format: Diskette.

4b. Database computer environment: VAX 11-750, custom software.

5. Restrictions and conditions: None.

6. Price information: No charge.

7. Corresponding printed sources: None.

8. Languages: English.

9. User aids available: None.

10. Keywords: Hydrology; Prairies; Water

11. Additional information: This software is supported by customized software.

GWDRILL (Groundwater)

GWD-0235-E

1. Summary description: An inventory of well logs compiled in Manitoba.

2a. Responsible organization: Manitoba Natural Resources

2b. Database contact: Mr. Chris Romano, Groundwater Technician, Groundwater Management, Section, Water Resources Branch, Manitoba Natural Resources, 1577 Dublin Avenue, Winnipeg, Man. R3E 3J5

Phone: (204) 945-7409 *Facsimile:* (204) 945-7419

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- geological log
- well construction
- legal land location
- pump test

3b. Data acquisition methods: Monitoring. Logs received from drilling contractors.

3c. Geographic coverage: Manitoba.

3d. Geographic units of measure: Section, township, range, river lots.

3e. Period of record: 1890 to present.

3f. Update frequency: As required.

4a. Database storage format: Diskette.

4b. Database computer environment: VAX 11-750, custom software.

5. Restrictions and conditions: None.

6. Price information: No charge.

7. Corresponding printed sources: None.

8. Languages: English.

9. User aids available: None.

10. Keywords: Hydrology; Prairies; Water

11. Additional information: This database is supported by customized software.

HYDATA

HYD-0234-E

1. Summary description: An inventory of daily water level, flow and precipitation data for Manitoba.

2a. Responsible organization: Manitoba Natural Resources

2b. Database contact: Ms. Judy Colp, Computer Operator, Surface Water Management, Water Resources Branch, Manitoba Natural Resources, 1577 Dublin Avenue, Winnipeg, Man. R3E 3J5

Phone: (204) 945-6393 *Facsimile:* (204) 945-7419

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- daily (water levels, streamflow)

3b. Data acquisition methods: Water level recorder. Stevens A35 recorder, some manual gauge readings.

3c. Geographic coverage: Manitoba.

3d. Geographic units of measure: Reference by station name.

3e. Period of record: 1903 to present.

3f. Update frequency: Continually.

4a. Database storage format: Diskette.

4b. Database computer environment: VAX 11-750, custom software.

5. Restrictions and conditions: None.

6. Price information: No charge.

7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Hydrology; Prairies; Water
11. **Additional information:** This database is supported by customized software.



Manitoba Resources

GWCHEM (Groundwater)

GWC-0236-E

1. **Summary description:** An inventory of chemical analyses from wells in Manitoba.
- 2a. **Responsible organization:** Manitoba Resources
- 2b. **Database contact:** Mr. Chris Romano, Groundwater Technician, Groundwater Management Section, Water Resources Branch, Manitoba Natural Resources, 1577 Dublin Avenue, Winnipeg, Man. R3E 3J5
Phone: (204) 945-7409 *Facsimile:* (204) 945-7419
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - chemical analyses
- 3b. **Data acquisition methods:** Field studies. Tube samples, pumping.
- 3c. **Geographic coverage:** Manitoba.
- 3d. **Geographic units of measure:** Referenced by station identification.
- 3e. **Period of record:** 1960 to present.
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** VAX 11-750, custom software.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Hydrology; Prairies; Water
11. **Additional information:** This database is supported by customized software.



Manitoba Rural Development

Manitoba Assessment Computer System

MAC-0110-E

1. **Summary description:** The database contains assessment values for land and buildings as well as the classification of each property for taxation purposes. Also available is the status of the property regarding its liability to taxation, the owner's name and mailing address and the legal description. The database is accessible through Manitoba Online, an information system with access to several government information sources.
- 2a. **Responsible organization:** Manitoba Rural Development
- 2b. **Database contact:** Manitoba Online, Customer Service Representative, Information Systems Management (ISM), 400 Ellice Avenue, Winnipeg, Man. R3B 3M3
Phone: (204) 946-4989 *Facsimile:* (204) 947-3816
- 2c. **Access mechanisms:** Through ISM Information Systems Management Corporation.
- 3a. **Parameters measured:**
 - ownership information
 - legal description of property
 - sales information
 - building characteristics
 - land characteristics (soil information for arable land)
- 3b. **Data acquisition methods:** Survey information and manual measurements.
- 3c. **Geographic coverage:** Province of Manitoba excluding the City of Winnipeg.
- 3d. **Geographic units of measure:** Acres, frontage.
- 3e. **Period of record:** 1987 to present.
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Not applicable.
- 4b. **Database computer environment:** TELON, VMS.
5. **Restrictions and conditions:** Current tax roll information only.
6. **Price information:** \$0.25 per transaction.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** User's manual available through Manitoba Online.
10. **Keywords:** Geography; Land use; Prairies
11. **Additional information:** None.

SASKATCHEWAN



Central Survey and Mapping Agency

General Purpose Base Map Data Set

GPB-0417-E

1. **Summary description:** Provincial coverage of general geographic data including: lakes, rivers, highways, railways, township boundaries. Location points of cities, towns and villages, parks. Administrative boundaries (rural municipalities, NTS, provincial constituencies and census).
- 2a. **Responsible organization:** Central Survey and Mapping Agency
- 2b. **Database contact:** GIS Centre, Central Survey and Mapping Agency, 2045 Broad Street, Regina, Sask. S4P 3V7
Phone: (306) 787-4880 Facsimile: (306) 787-4617
- 2c. **Access mechanisms:** User license agreements.
- 3a. **Parameters measured:**
 - lines (MANBOUND - Manitoba boundary, SHORE - shore-line, RP - paved road)
 - points (VILL - village, FERRY - ferry)
 - polygons (C - city polygon, IR - Indian reserve)
 - text (TOWNT - town name, WBT - lake name)
- 3b. **Data acquisition methods:** Digitization of base maps. Source maps from EMR Canada, Gazetteer of Canada, 1:250 000 NTS maps, CSMA survey records and rural municipalities maps.
- 3c. **Geographic coverage:** All 12 cities and 1,034 towns, villages and hamlets in Saskatchewan.
- 3d. **Geographic units of measure:** Lot dimensions, lot areas, UTM coordinates.
- 3e. **Period of record:** 1870 to present.
- 3f. **Update frequency:** Upon request.
- 4a. **Database storage format:** Data cartridge, 9-track tape, streamer tape, diskette.
- 4b. **Database computer environment:** DOS or UNIX systems, CAD or GIS software.
5. **Restrictions and conditions:** For internal use only. See data centre for further details.
6. **Price information:** Contact GIS Centre for details.
7. **Corresponding printed sources:** General purpose hard copy map (1:1 000 000).
8. **Languages:** English.
9. **User aids available:** Urban Cadastral User's Guide.
10. **Keywords:** Geographic Information System; Geography; Prairies
11. **Additional information:** A brochure is available.

Rural Cadastral Base Map Data Set

RCB-0415-E

1. **Summary description:** A township boundary system including legal surveys of roads, right of way parcels and subdivisions recorded and registered in the Land Titles Office.

- 2a. **Responsible organization:** Central Survey and Mapping Agency
- 2b. **Database contact:** GIS Centre, Central Survey and Mapping Agency, 2045 Broad Street, Regina, Sask. S4P 3V7
Phone: (306) 787-4880 Facsimile: (306) 787-4617
- 2c. **Access mechanisms:** User license agreements.
- 3a. **Parameters measured:**
 - line layer fields (LQS - section line, LRL - riverlot line, LTP - township boundary, LWBDY - waterbody boundary)
 - text fields (TSECNO - section numbers, DQS - dimension for a section line)
- 3b. **Data acquisition methods:** Computation of coordinates of survey monuments using coordinate geometry and township/survey plan dimensions. Township Plans, geodetic control and registered plans of survey.
- 3c. **Geographic coverage:** Southerly surveyed portion of Saskatchewan (3,425 townships), including recreational subdivisions, unorganized hamlets and railway points.
- 3d. **Geographic units of measure:** Legal subdivision (LSD = 40 acres), legal survey boundary dimension, UTM coordinates.
- 3e. **Period of record:** 1870 to present.
- 3f. **Update frequency:** Upon request.
- 4a. **Database storage format:** Data cartridge, 9-track tape, streamer tape, diskette.
- 4b. **Database computer environment:** DOS or UNIX systems, CAD or GIS software.
5. **Restrictions and conditions:** For internal use only. See data centre for further details.
6. **Price information:** Contact GIS Centre for details.
7. **Corresponding printed sources:** Township plans of survey.
8. **Languages:** English.
9. **User aids available:** Township Fabric User's Guide.
10. **Keywords:** Geography; Land use; Prairies; Geographic Information System
11. **Additional information:** A brochure is available.

Township Fabric Base Map Data Set

TFB-0414-E

1. **Summary description:** A cadastral township boundary system including road allowances, section lines, legal subdivisions and major water boundaries. For use in land information systems (GIS, CAD).
- 2a. **Responsible organization:** Central Survey and Mapping Agency
- 2b. **Database contact:** GIS Centre, Central Survey and Mapping Agency, 2045 Broad Street, Regina, Sask. S4P 3V7
Phone: (306) 787-4880 Facsimile: (306) 787-4617
- 2c. **Access mechanisms:** User license agreements.
- 3a. **Parameters measured:**
 - line layer fields (LQS - section line, LRL - riverlot line, LTP - township boundary, LWBDY - waterbody boundary)
 - tables (POLYPPID - standard ID for polygon, TWPNO - township number)
 - text fields (TSECNO - section numbers, DQS - dimension for a section line)
- 3b. **Data acquisition methods:** Computation of coordinates of survey monuments using photogrammetric aerial triangulation and township/survey plan dimensions. Township Plans of Saskatchewan and geodetic control on a 10km by 20km grid.
- 3c. **Geographic coverage:** Southerly surveyed portion of Saskatchewan (3,425 townships).
- 3d. **Geographic units of measure:** Legal subdivision (LSD = 40 acres), legal survey boundary dimension, UTM coordinates.

- 3e. **Period of record:** 1870 to present.
- 3f. **Update frequency:** As townships are surveyed or resurveyed.
- 4a. **Database storage format:** Data cartridge, 9-track tape, streamer tape, diskette.
- 4b. **Database computer environment:** DOS or UNIX systems, CAD or GIS software.
5. **Restrictions and conditions:** For internal use only. See data centre for further details.
6. **Price information:** Contact GIS Centre for details.
7. **Corresponding printed sources:** Township plans of survey.
8. **Languages:** English.
9. **User aids available:** Township Fabric User's Guide.
10. **Keywords:** Geography; Land use; Prairies; Geographic Information System
11. **Additional information:** A brochure is available.

Urban Cadastral Base Map Data Set

UCB-0416-E

1. **Summary description:** Surveyed road, lot and block boundaries for 12 cities and 1,034 towns, villages and hamlets in Saskatchewan.
- 2a. **Responsible organization:** Central Survey and Mapping Agency
- 2b. **Database contact:** GIS Centre, Central Survey and Mapping Agency, 2045 Broad Street, Regina, Sask. S4P 3V7
Phone: (306) 787-4880 *Facsimile:* (306) 787-4617
- 2c. **Access mechanisms:** User license agreements.
- 3a. **Parameters measured:**
 - lines (BS - line between block and lane, LL - lot line, RW - right of way line)
 - text (BLOCKCOM - block letter or number, STREETCOM - street name, RMNO - rural municipality name and number)
- 3b. **Data acquisition methods:** Computation of coordinates of survey monuments using coordinate geometry and township/survey plan dimensions. Township Plans, geodetic control and registered plans of survey.
- 3c. **Geographic coverage:** All 12 cities and 1,034 towns, villages and hamlets in Saskatchewan.
- 3d. **Geographic units of measure:** Lot dimensions, lot areas, UTM coordinates.
- 3e. **Period of record:** 1870 to present.
- 3f. **Update frequency:** Cities every 30 working days, all else upon request.
- 4a. **Database storage format:** Data cartridge, 9-track tape, streamer tape, diskette.
- 4b. **Database computer environment:** DOS or UNIX systems, CAD or GIS software.
5. **Restrictions and conditions:** For internal use only. See data centre for further details.
6. **Price information:** Contact GIS Centre for details.
7. **Corresponding printed sources:** Legal survey plans of subdivisions.
8. **Languages:** English.
9. **User aids available:** Urban Cadastral User's Guide.
10. **Keywords:** Geography; Land use; Prairies; Geographic Information System
11. **Additional information:** A brochure is available.



Department of Agriculture and Food

Pathological Database

PAT-0125-E

1. **Summary description:** A database containing a daybook (records on cases), pathology results and diagnosis, and clinical pathology results.
- 2a. **Responsible organization:** Department of Agriculture and Food
- 2b. **Database contact:** Dr. LeeAnn Forsythe or, Mr. Wallace Piercy (PCS), Veterinary Pathologists, Veterinary Branch, Department of Agriculture and Food, 4840 Wascana Parkway, Regina, Sask. S4S 0B1
Phone: (306) 787-6069 *Facsimile:* (306) 787-6439
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - daybook (records on cases)
 - pathology (results, diagnosis)
 - clinical pathology results
- 3b. **Data acquisition methods:** Reports. Laboratory analysis.
- 3c. **Geographic coverage:** Southern Saskatchewan.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1991 to present.
- 3f. **Update frequency:** Continually, on line system.
- 4a. **Database storage format:** Hard disk.
- 4b. **Database computer environment:** PC.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** System's manual and file definitions.
10. **Keywords:** Biology; Health; Prairies
11. **Additional information:** None.



Department of Energy and Mines

Assessment Work Catalogue (Minerals)

AWC-0278-E

1. **Summary description:** This database contains descriptions of all mineral assessment files submitted to the department by industry engaged in mineral exploration in Northern Saskatchewan.
- 2a. **Responsible organization:** Department of Energy and Mines
- 2b. **Database contact:** Mr. Rick Bennett, Mineral Development Geologist, Department of Energy and Mines, 12th Floor, 1914 Hamilton Street, Regina, Sask. S4P 4V4
Phone: (306) 787-2569 *Facsimile:* (306) 787-2488
- 2c. **Access mechanisms:** Through the responsible organization.

- 3a. Parameters measured:**
- company
 - area (location, NTS area)
 - disposition
 - file number
 - confidential date and flag
 - catalogue flag
 - data description
- 3b. Data acquisition methods:** Monitoring. Submitted industry assessment files.
- 3c. Geographic coverage:** Saskatchewan.
- 3d. Geographic units of measure:** Latitude and longitude, UTM coordinates.
- 3e. Period of record:** 1912 to present.
- 3f. Update frequency:** Daily.
- 4a. Database storage format:** Magnetic disk/tape, hard copy, NTS map sheets.
- 4b. Database computer environment:** PC, Q&A.
- 5. Restrictions and conditions:** None.
- 6. Price information:** Recovery and reproduction cost.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Minerals; Mining; North
- 11. Additional information:** Although the Department of Energy and Mines has exercised all reasonable care in the compilation, interpretation and reproduction of this database, it is not possible to ensure total accuracy, and all persons who rely on the information contained here do so at their own risk. The Department of Energy and Mines and the Government of Saskatchewan do not accept liability for any error, omissions or inaccuracies that may be included in, or derived from this database.

Petroleum Production and Disposition System

PPD-0277-E

- 1. Summary description:** The Production and Disposition System maintains statistical data concerning the production, injection, disposition and sales of crude oil, natural gas, water and petroleum related products from all producing oil, gas and water source wells in the province.
- 2a. Responsible organization:** Department of Energy and Mines
- 2b. Database contact:** Mr. Darwin Roske, Petroleum Statistics Branch, Petroleum and Natural Gas Division, Department of Energy and Mines, 1914 Hamilton Street, Regina, Sask. S4P 4V4
Phone: (306) 787-2552 *Facsimile:* (306) 787-8236
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- producing/injecting wells (location, formation, type)
 - produced/injected volumes of fluids/gas for wells by (month, year, cumulative to date)
 - hours on production/injection for wells by (month, year, cumulative to date)
 - well operator and battery/facility to which the well belongs
 - production (receipts, deliveries, sales, inventories, fuel usage, shrinkage, losses, of minerals at a battery/facility/system level by month)
 - monthly sales valuation information at a battery/unit level (producing/selling company, purchasing company, pricing information, deductions and allowances, point of sale)
- 3b. Data acquisition methods:** Submission of data by oil and gas companies. Information submitted monthly on standardized reporting forms or via electronic means as per standardized formats.

- 3c. Geographic coverage:** Oil and gas producing regions of Saskatchewan South of the Precambrian Shield.
- 3d. Geographic units of measure:** Well identifier, meridian, township and range.
- 3e. Period of record:** 1935 to present.
- 3f. Update frequency:** Monthly, some daily.
- 4a. Database storage format:** Hardcopy, microfiche, 9-track tape, cartridge, diskette.
- 4b. Database computer environment:** IBM mainframe, COBOL, PC, EASYTRIEVE, DATAEASE, MARK IV.
- 5. Restrictions and conditions:** Some data is confidential.
- 6. Price information:** There are various format and price ranges.
- 7. Corresponding printed sources:** Various reports include: Annual Mineral Statistics Yearbook; Monthly Oil and Gas Production Report; Reservoir Annual; Horizontal Well Production Report; Publication's Maps and Services Catalogue.
- 8. Languages:** English.
- 9. User aids available:** User and Program Documentation for PDS. On-line menu panels.
- 10. Keywords:** Natural gas; Oil; Prairies
- 11. Additional information:** Some oil and gas sales data is available only in aggregated formats.

Saskatchewan Mineral Deposits Index

SMD-0279-E

- 1. Summary description:** A compilation of information available on known mineral deposits and showings in Northern Saskatchewan. The inventory can be used to research showings, the distribution of specific commodities, and possible commodities and potential in specific areas of interest.
- 2a. Responsible organization:** Department of Energy and Mines
- 2b. Database contact:** Mr. Rick Bennett, Mineral Development Geologist, Department of Energy and Mines, 12th Floor, 1914 Hamilton Street, Regina, Sask. S4P 4V4
Phone: (306) 787-2569 *Facsimile:* (306) 787-2488
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- showing name
 - commodity
 - disposition
 - latitude and longitude
 - UTM
 - NTS block
 - geology
 - literature references
- 3b. Data acquisition methods:** Compilation and research. Assessment reports; geological, geophysical, and geochemical reports; magazines, newspapers, scientific journals and volumes.
- 3c. Geographic coverage:** Saskatchewan.
- 3d. Geographic units of measure:** Latitude and longitude, UTM coordinates.
- 3e. Period of record:** 1912 to present.
- 3f. Update frequency:** Daily.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, Q&A.
- 5. Restrictions and conditions:** None.
- 6. Price information:** Recovery and reproduction cost.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Geology; Minerals; Prairies

11. Additional information:

1. Data consists of descriptions of individual showings.
2. Although the Department of Energy and Mines has exercised all reasonable care in the compilation, interpretation and reproduction of this database, it is not possible to ensure total accuracy, and all persons who rely on the information contained here do so at their own risk. The Department of Energy and Mines and the Government of Saskatchewan do not accept liability for any error, omissions or inaccuracies that may be included in, or derived from this database.



Department of Environment and Resource Management

3P (Forests) System

FS-0144-E

1. **Summary description:** A database containing 3P Plot measurements, Stand and Stock tables and Log Volume tables.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Ms. Fern Gruszka, Department of Environment and Resource Management, 800 Central Avenue, Prince Albert, Sask. S6V 6G1
Phone: (306) 953-2249 *Facsimile:* (306) 953-2360
- 2c. **Access mechanisms:** By request only. See data centre contact.
- 3a. **Parameters measured:**
 - number and attributes of trees in 3P plots
 - species (DBH class, age of stand)
 - drainage/texture of soil
 - forest-cover-type of plots
 - volume
 - frequency
- 3b. **Data acquisition methods:** Field survey. Field measurements.
- 3c. **Geographic coverage:** Saskatchewan Commercial Forest Zone.
- 3d. **Geographic units of measure:** UTM coordinates and stand number.
- 3e. **Period of record:** 1977 to present.
- 3f. **Update frequency:** Annually, but sporadic after 1988.
- 4a. **Database storage format:** 9-track tape, diskette.
- 4b. **Database computer environment:** IBM mainframe.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Various forest models (Industry/Consultants). Provincial technical reports.
8. **Languages:** English.
9. **User aids available:** FB10 Systems and User's manuals.
10. **Keywords:** Forest; Forestry; Prairies
11. **Additional information:** In excess of 25,000 plots measured throughout Saskatchewan Commercial Forest Zone.

Aero-Triangulation

FB4-0142-E

1. **Summary description:** A database of geodetic control points and other parameters to facilitate accurate base mapping.

- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Mr. Fern Gruszka, Department of Environment and Resource Management, 800 Central Avenue, Prince Albert, Sask. S6V 6G1
Phone: (306) 953-2249 *Facsimile:* (306) 953-2360
- 2c. **Access mechanisms:** By request only. See data centre contact.
- 3a. **Parameters measured:**
 - location of control points
 - geometric corrections applied
 - residuals
- 3b. **Data acquisition methods:** Mapping. 1:50 000 photos and EMR control point data.
- 3c. **Geographic coverage:** Saskatchewan commercial forest zone.
- 3d. **Geographic units of measure:** X, Y (Z) in UTM coordinates.
- 3e. **Period of record:** 1980 to present.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** 9-track tape, diskette.
- 4b. **Database computer environment:** IBM mainframe, PC.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Shutts Bundle Adjustments.
8. **Languages:** English.
9. **User aids available:** FB40 Systems and User's Manual.
10. **Keywords:** Geodesy; Prairies; Trees
11. **Additional information:** None.

An Inventory of Forest Roads in Saskatchewan

ROA-0131-E

1. **Summary description:** This database catalogues, provides road distances, primary resource users, land recommended status of all roads and trails in the Commercial Forest of Saskatchewan compiled on a Regional basis. A catalogue of individually identified, numbered roads measured for distance (km), location, resource uses and planned status. Catalogues are referenced to accompanying maps.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Mr. Edward H. Kowal, Wildlife Branch, Department of Environment and Resource Management, Box 3003, Prince Albert, Sask. S6V 6G1
Phone: (306) 953-2695 *Facsimile:* (306) 953-2300
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - distance (km)
 - location
 - resource uses
 - planned status
- 3b. **Data acquisition methods:** Mapping. Manual transfer of mapped roads from a variety of source maps to consolidated map associated catalogue accompanies maps. Extraction from Central Surveys and Mapping Forest Harvest Records Departmental Records and Provincial Forest Inventory Maps.
- 3c. **Geographic coverage:** The commercial forest of Saskatchewan.
- 3d. **Geographic units of measure:** Roads measured in kilometres.
- 3e. **Period of record:** Summarizes roads constructed to 1986.
- 3f. **Update frequency:** Update not planned.
- 4a. **Database storage format:** Hardcopy.

- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** Available for inter-agency use only, on site.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Road maps and associated catalogues.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** North; Roads; Transportation
11. **Additional information:** These maps and catalogues are not exact due to information transfer technique but are useful for most resource based applications.

Antelope Survey Database

ASD-0127-E

1. **Summary description:** A database used to record antelope sightings on different habitat types and land locations.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Mr. Marlon Killaby, Wildlife Specialist, Wildlife Branch, Department of Environment and Resource Management, 3211 Albert Street, Regina, Sask. S4S 5W6
Phone: (306) 787-9247 Facsimile: (306) 787-9544
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - location (section, township range meridian, (WMZ) Wildlife Management Zone)
 - species (type, group, group size, band side, subtype, classes 1 to 5)
 - comments
- 3b. **Data acquisition methods:** Monitoring. Visual identification from aircraft.
- 3c. **Geographic coverage:** Southwest Saskatchewan.
- 3d. **Geographic units of measure:** Miles.
- 3e. **Period of record:** 1990 to present.
- 3f. **Update frequency:** Every 3 to 5 years.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC, DBASE III+/IV.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Killaby, M., Dobson, D., and Dunn, C., *Pronghorn Antelope in Saskatchewan; Status and Management Strategies*, 1992, Wildlife Technical Report 92-2. Wildlife Branch, Saskatchewan Environment and Resource Management.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Mammals; Prairies; Wildlife
11. **Additional information:** Database consists of two files.

Aquaculture Licence Database

ALD-0161-E

1. **Summary description:** Database contains information on the aquaculture licences issued by the department.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Mr. William Sawchyn, Supervisor, Biological Services, Fisheries Branch, Department of Environment and Resource Management, 112 Research Drive, Saskatoon, Sask. S7K 2H6
Phone: (306) 933-5776 Facsimile: (306) 933-5773

- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - fish farmer (name, address, location)
 - size
 - stocking information
- 3b. **Data acquisition methods:** Monitoring. Application form.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** Latitude and longitude or township and range.
- 3e. **Period of record:** Complete records of all licenses issued.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hard disk.
- 4b. **Database computer environment:** PC.
5. **Restrictions and conditions:** Generally no restrictions.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Aquaculture; Fish; Prairies
11. **Additional information:** None.

Bears

BEA-0086-E

1. **Summary description:** Black bear harvest and population indices statistics.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Mr. Randy Seguin, Wildlife Ecologist, Wildlife Branch, Meadow Lake Region, Department of Environment and Resource Management, Box 580, Meadow Lake, Sask. S0M 1V0
Phone: (306) 236-7545 Facsimile: (306) 236-7677
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - age
 - physical characteristics
 - harvesting parameters
- 3b. **Data acquisition methods:** Surveys. Hunter surveys.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1986 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC, SUPERCALC, QUATTRO PRO.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Mammals; Prairies; Wildlife
11. **Additional information:** None.

Big Game Aerial Survey Database

BGA-0134-E

1. **Summary description:** An inventory of aerial transect, quadrant survey data and point locations of big game that have been identified by aerial surveys.

- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Mr. Ott Naelapea, Wildlife Branch, Department of Environment and Resource Management, Box 3003, 800 Central Avenue, Prince Albert, Sask. S6V 6G1
Phone: (306) 953-2893 Facsimile: (306) 953-2300
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- species
 - locations
 - group size
- 3b. **Data acquisition methods:** Monitoring. Observations by Wildlife Technicians from a helicopter or airplane.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** UTM coordinates.
- 3e. **Period of record:** 1970 to present.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC, ARC/INFO GIS, DBASE IV.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Raw Survey Data File, Saskatchewan Environment and Resource Management, Regina, Saskatchewan. Saskatchewan Game Management Reports, Saskatchewan Environment and Resource Management.
8. **Languages:** English.
9. **User aids available:** User's manual being prepared.
10. **Keywords:** Geographic Information System; Prairies; Wildlife
11. **Additional information:** Limited information is available prior to 1970. Information is not available for every survey block in every year due to the fact that surveys were not always flown.

Clean Air Act Permit System

CAA-0195-E

1. **Summary description:** An inventory of all industries having air emissions that require a permit to operate in Saskatchewan.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Mr. Charles Bosgoed, Research Officer, Air and Land Protection Branch, Department of Environment and Resource Management, 3085 Albert Street, Regina, Sask. S4S 0B1
Phone: (306) 787-0465 Facsimile: (306) 787-0197
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- business and industry information
 - location
 - permit conditions
- 3b. **Data acquisition methods:** Registration. Permits.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1976 to present.
- 3f. **Update frequency:** Quarterly.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DATAFLEX.
5. **Restrictions and conditions:** Some information is confidential.
6. **Price information:** Could be a fee to cover photocopying or media costs.
7. **Corresponding printed sources:** None.
8. **Languages:** English.

9. **User aids available:** None.
10. **Keywords:** Emissions; Environmental Science; Prairies
11. **Additional information:** None.

Commercial Fishing System

COM-0153-E

1. **Summary description:** An inventory that includes a number of databases relating to commercial fishing in the province (licences, production, quotas, aquaculture).
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Mr. Grant Hamilton, Supervisor, Data Services, Fisheries Branch, Department of Environment and Resource Management, 3211 Albert Street, Regina, Sask. S4S 5W6
Phone: (306) 787-7603 Facsimile: (306) 787-0737
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- quotas (by lake, by species)
 - production (by lake, by species, by fisherman)
- 3b. **Data acquisition methods:** Monitoring. Catch records, licence application.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1920 to present. 1920 to present in summary, 1985 to present in detail.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hard disk.
- 4b. **Database computer environment:** IBM mainframe.
5. **Restrictions and conditions:** Some restrictions because of commercial nature.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Fish; Lakes; Wildlife
11. **Additional information:** None.

Depth Maps of Lakes

DEP-0157-E

1. **Summary description:** Database is an inventory of lakes for which depth maps are available.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Mr. William Sawchyn, Supervisor, Biological Services, Fisheries Branch, Department of Environment and Resource Management, 112 Research Drive, Saskatoon, Sask. S7K 2H6
Phone: (306) 933-5776 Facsimile: (306) 933-5773
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- lake code
 - scale of map
 - map material
 - maximum of depth
- 3b. **Data acquisition methods:** Taken from existing maps. Data input by departmental staff.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** Lake code.
- 3e. **Period of record:** 1931 to present.

- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Hard disk.
- 4b. **Database computer environment:** PC.
5. **Restrictions and conditions:** Generally no restrictions.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Hydrography; Prairies; Water
11. **Additional information:** None.

Diseased Fish Database

DFD-0160-E

1. **Summary description:** Database contains records of the veterinary pathology reports of diseased fish submitted to department lab.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Mr. William Sawchyn, Supervisor, Biological Services, Fisheries Branch, Department of Environment and Resource Management, 112 Research Drive, Saskatoon, Sask. S7K 2H6
Phone: (306) 933-5776 *Facsimile:* (306) 933-5773
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - lake
 - species
 - date
 - symptoms
 - diagnosis
- 3b. **Data acquisition methods:** Paper report from the veterinary pathology lab.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** Lake code.
- 3e. **Period of record:** 1987 to present.
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Hard disk.
- 4b. **Database computer environment:** PC.
5. **Restrictions and conditions:** Generally no restrictions.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Diseases; Fish; Lakes
11. **Additional information:** None.

Environmental Assessment Project Tracking System

EAP-0219-E

1. **Summary description:** The system is used to track the progress of projects as they move through the Environmental Assessment Review Process.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Mr. Brent Bitter, Project Administrator, Environmental Assessment Division, Department of Environment and Resource Management, 3085 Albert Street, Regina, Sask. S4S 0B1
Phone: (306) 787-6354 *Facsimile:* (306) 787-0930

- 2c. **Access mechanisms:** Through Ron Quinn at (306) 787-6258.
- 3a. **Parameters measured:**
 - project information
 - dates
- 3b. **Data acquisition methods:** Monitoring. Projects tracked by departmental staff as they move through the Environmental Review Process.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1992 to present.
- 3f. **Update frequency:** Daily.
- 4a. **Database storage format:** Hardcopy, hard disk.
- 4b. **Database computer environment:** Macintosh.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Quarterly Status Reports.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Construction; Environmental Science; Prairies
11. **Additional information:** It is suggested that the Quarterly Status Reports that are produced from the system are the best source of information. Interested parties should contact Ron Quinn to get on the mailing list for this report. The reports generated during the actual assessments are generally available through the data centre contact listed above.

Environmental Consultant List

ECO-0192-E

1. **Summary description:** This is a database providing information on consultants with environmental expertise.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Ms. Gail Anderson, Project Co-ordinator, Environmental Assessment Branch, Department of Environment and Resource Management, 3085 Albert Street, Regina, Sask. S4S 0B1
Phone: (306) 787-0785 *Facsimile:* (306) 787-0930
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - consultant (name, address, phone number, area of expertise)
- 3b. **Data acquisition methods:** Survey. Data collected by departmental staff.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** Current.
- 3f. **Update frequency:** As available.
- 4a. **Database storage format:** Hardcopy, hard disk.
- 4b. **Database computer environment:** PC, DATAEASE.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Environmental Science; Prairies; Research
11. **Additional information:** None.

ESQUADAT

ESQ-0194-E

1. **Summary description:** An inventory created to record information concerning the quality of water in various water bodies in the province.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Ms. Marj Heisler, Programmer/Analyst, Supervisor, Water Quality Branch, Department of Environment and Resource Management, 3085 Albert Street, Regina, Sask. S4S 0B1
Phone: (306) 787-6177 Facsimile: (306) 787-0197
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - chemical water quality data
 - water/waste water (municipal, industrial)
- 3b. **Data acquisition methods:** Testing equipment. Paper reports.
- 3c. **Geographic coverage:** Parts of Saskatchewan.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1970 to present.
- 3f. **Update frequency:** Daily.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** IBM RS6000.
5. **Restrictions and conditions:** Freedom of Information and Privacy Act may apply.
6. **Price information:** Varies according to request.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Hydrology; Prairies; Water quality
11. **Additional information:** None.

ESQUADAT - MPC

ESM-0193-E

1. **Summary description:** An inventory to store, update and retrieve environmental (water) data collected pursuant to licenses at mine sites.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Ms. Rhonda Herzog, Computer Programmer, Mineral Industry Environmental Protection Branch, Department of Environment and Resource Management, 12th Floor, 800 Central Avenue, P.O. Box 3003, Prince Albert, Sask. S6V 6G1
Phone: (306) 953-2550 Facsimile: (306) 953-2297
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - water quality (metals, organics, nutrients, major ions)
 - physical parameters on various media including surface and ground water
 - terrestrial sediments
 - lake bottom sediments
 - air and mine effluents
- 3b. **Data acquisition methods:** Various - parameter dependent.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** Mine site.
- 3e. **Period of record:** 1975 to present.
- 3f. **Update frequency:** Daily.
- 4a. **Database storage format:** Hardcopy, 8mm tape, diskette.

- 4b. **Database computer environment:** RS6000, ORACLE.
5. **Restrictions and conditions:** Freedom of Information and Privacy Act may apply.
6. **Price information:** Not established.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** User's Manual; Method Code Master; Station Master.
10. **Keywords:** Mining; Prairies; Water quality
11. **Additional information:** None.

Field and Timber Permits

FTP-0140-E

1. **Summary description:** Current and historical records of harvesting permits issued within the Provincial Forest of Saskatchewan.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Mr. Merna Knoke, Department of Environment and Resource Management, 800 Central Avenue, Prince Albert, Sask. S6V 6G1
Phone: (306) 953-2449 Facsimile: (306) 953-2360
- 2c. **Access mechanisms:** By request only. See data centre contact.
- 3a. **Parameters measured:**
 - harvesting (species of timber, quantities, location, size, time span)
- 3b. **Data acquisition methods:** Reporting. Manually issued permits.
- 3c. **Geographic coverage:** Saskatchewan Provincial Forest.
- 3d. **Geographic units of measure:** UTM coordinates, NTS map-sheet and stand number.
- 3e. **Period of record:** 1979 to present.
- 3f. **Update frequency:** On-going.
- 4a. **Database storage format:** 9-track tape, diskette.
- 4b. **Database computer environment:** IBM mainframe.
5. **Restrictions and conditions:** Limited access.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** System and User's manuals.
10. **Keywords:** Forestry; Forests; Trees
11. **Additional information:** None.

Field Record Book (Fish) Database

FRB-0156-E

1. **Summary description:** An inventory of the field record books available.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Mr. William Sawchyn, Supervisor, Biological Services, Fisheries Branch, Department of Environment and Resource Management, 112 Research Drive, Saskatoon, Sask. S7K 2H6
Phone: (306) 933-5776 Facsimile: (306) 933-5773
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - dates
 - locations
 - biologist

- 3b. Data acquisition methods:** From record books. Field biologists.
- 3c. Geographic coverage:** Saskatchewan.
- 3d. Geographic units of measure:** Not applicable.
- 3e. Period of record:** 1948 to present.
- 3f. Update frequency:** As required.
- 4a. Database storage format:** Hard disk.
- 4b. Database computer environment:** PC, DBASE.
- 5. Restrictions and conditions:** Generally no restrictions.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Biology; Fish; Prairies
- 11. Additional information:** None.

Fire Chronology

FCH-0132-E

- 1. Summary description:** An inventory of forest fires that have occurred in Saskatchewan that are greater than or equal to 1,000 hectares.
- 2a. Responsible organization:** Department of Environment and Resource Management
- 2b. Database contact:** Mr. Ott Naelapea, Wildlife Branch, Department of Environment and Resource Management, Box 3003, 800 Central Avenue, Prince Albert, Sask. S6V 6G1
Phone: (306) 953-2671 *Facsimile:* (306) 953-2300
 Mr. Terry Rock *Phone:* (306) 953-2893
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - area (size)
 - year
 - ID
- 3b. Data acquisition methods:** Field maps.
- 3c. Geographic coverage:** Forested area of Saskatchewan.
- 3d. Geographic units of measure:** UTM coordinates, NTS map-sheets, hectares and miles².
- 3e. Period of record:** 1945 to 1989.
- 3f. Update frequency:** Not updated since 1989, but annual updates may start soon.
- 4a. Database storage format:** Diskette, tape.
- 4b. Database computer environment:** PC, UNIX work station, CAD, GIS software.
- 5. Restrictions and conditions:** To be announced.
- 6. Price information:** Not established.
- 7. Corresponding printed sources:** Source maps and various scales and NTS maps with all fires (originals only).
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Forestry; Forests; Geographic Information System
- 11. Additional information:** None.

Fish Catch

FC-0150-E

- 1. Summary description:** Database contains data on length, weight, sex, maturity, and age of fish caught.
- 2a. Responsible organization:** Department of Environment and Resource Management

- 2b. Database contact:** Mr. Grant Hamilton, Supervisor, Data Services, Fisheries Branch, Department of Environment and Resource Management, 3211 Albert Street, Regina, Sask. S4S 5W6

Phone: (306) 787-7603 *Facsimile:* (306) 787-0737

- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - fish (length, weight, sex, maturity, age)
- 3b. Data acquisition methods:** Field reporting.
- 3c. Geographic coverage:** Saskatchewan.
- 3d. Geographic units of measure:** Not applicable.
- 3e. Period of record:** 1972 to 1983. 1972 to 1977 paper records, 1977 to 1983 digital.
- 3f. Update frequency:** Discontinued.
- 4a. Database storage format:** Hard disk.
- 4b. Database computer environment:** IBM mainframe.
- 5. Restrictions and conditions:** Generally no restrictions.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Fish; Prairies; Wildlife
- 11. Additional information:** None.

Fish Facts Database

FFD-0162-E

- 1. Summary description:** A database on fish in Saskatchewan used as the basis for reports.
- 2a. Responsible organization:** Department of Environment and Resource Management
- 2b. Database contact:** Mr. William Sawchyn, Supervisor, Biological Services, Fisheries Branch, Department of Environment and Resource Management, 112 Research Drive, Saskatoon, Sask. S7K 2H6
Phone: (306) 933-5776 *Facsimile:* (306) 933-5773
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - lake information
 - fish (populations, size)
 - general remarks
- 3b. Data acquisition methods:** Field survey. On-site testing by biologists.
- 3c. Geographic coverage:** Saskatchewan.
- 3d. Geographic units of measure:** Lake location, either latitude and longitude or township and range.
- 3e. Period of record:** 1986 to 1992.
- 3f. Update frequency:** Annually.
- 4a. Database storage format:** Hard disk.
- 4b. Database computer environment:** PC, DBASE.
- 5. Restrictions and conditions:** Generally no restrictions.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** Annual Publication, *Fish Facts*.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Fish; Prairies; Wildlife
- 11. Additional information:** None.

Fish Mercury Analysis Database

FME-0163-E

1. **Summary description:** There are three databases containing information on mercury levels in fish from various lakes in the province.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Mr. William Sawchyn, Supervisor, Biological Services, Fisheries Branch, Department of Environment and Resource Management, 112 Research Drive, Saskatoon, Sask. S7K 2H6
Phone: (306) 933-5776 Facsimile: (306) 933-5773
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - mercury level
 - fish species
 - location
- 3b. **Data acquisition methods:** Field surveys. Field data analysis.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** Lake location, latitude and longitude.
- 3e. **Period of record:** 1989 to 1991.
- 3f. **Update frequency:** No activity at this time.
- 4a. **Database storage format:** Hard disk.
- 4b. **Database computer environment:** PC.
5. **Restrictions and conditions:** Generally no restrictions.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Contaminants; Fish; Prairies
11. **Additional information:** None.

Fish Stocking Database

FSD-0158-E

1. **Summary description:** Database contains information on fish stocking in Saskatchewan lakes.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Mr. William Sawchyn, Supervisor, Biological Services, Fisheries Branch, Department of Environment and Resource Management, 112 Research Drive, Saskatoon, Sask. S7K 2H6
Phone: (306) 933-5776 Facsimile: (306) 933-5773
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - lake code
 - species (size, date, number, origin)
- 3b. **Data acquisition methods:** Monitoring. Written records.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** Lake code.
- 3e. **Period of record:** 1915 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hard disk.
- 4b. **Database computer environment:** PC, DBASE.
5. **Restrictions and conditions:** Generally no restrictions.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.

9. **User aids available:** None.
10. **Keywords:** Ecology; Fish; Lakes
11. **Additional information:** None.

Forest Inventory

FI-0141-E

1. **Summary description:** GIS resident (ARC/INFO) database of forest cover information on the Saskatchewan Commercial Forest Zone.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Ms. Fern Gruszka, Department of Environment and Resource Management, 800 Central Avenue, Prince Albert, Sask. S6V 6G1
Phone: (306) 953-2249 Facsimile: (306) 953-2360
- 2c. **Access mechanisms:** By request only. See data centre contact.
- 3a. **Parameters measured:**
 - georeferences location of forest stand boundaries
 - stand attributes
 - topographical data
 - hydrology
 - administrators
 - ownership details
- 3b. **Data acquisition methods:** Mapping, aerial surveys. Vector digitizing. Air photo interpretation, hand drafted base maps.
- 3c. **Geographic coverage:** 1,600 maps in Saskatchewan Commercial Forest Zone.
- 3d. **Geographic units of measure:** UTM coordinates, NTS map-sheets.
- 3e. **Period of record:** 1977 to present.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** 9-track tape, 1/4" tape, diskette.
- 4b. **Database computer environment:** UNIX workstations, ARC/INFO GIS.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** Systems and User's manuals.
10. **Keywords:** Forestry; Geographic Information System; Prairies
11. **Additional information:** Approximately 2/3 of coverage (1,000) maps is vectorized grid cell data.

Fur Harvest

FH-0133-E

1. **Summary description:** An inventory of fur data such as numbers and value of pelts for the province of Saskatchewan.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Mr. Wayne Runge, Fur Administrator, Wildlife Branch, Department of Environment and Resource Management, Box 3003, 800 Central Avenue, Prince Albert, Sask. S6V 6G1
Phone: (306) 953-2694 Facsimile: (306) 953-2300
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - species trapped
 - number of animals trapped/species
 - average value of pelts/species
 - total value of pelts/species

- 3b. Data acquisition methods:** Survey. Information collected from trappers.
- 3c. Geographic coverage:** Saskatchewan.
- 3d. Geographic units of measure:** Not applicable.
- 3e. Period of record:** Early 1900's and onward.
- 3f. Update frequency:** Annually.
- 4a. Database storage format:** Diskette.
- 4b. Database computer environment:** PC, DBASE IV.
- 5. Restrictions and conditions:** To be announced.
- 6. Price information:** Not established.
- 7. Corresponding printed sources:** Various reports.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Mammals; Prairies; Wildlife
- 11. Additional information:** None.

Growth and Yield (Forests)

GY-0145-E

- 1. Summary description:** Plot and tree measurements of permanent sample plots.
- 2a. Responsible organization:** Department of Environment and Resource Management
- 2b. Database contact:** Ms. Fern Gruszka, Department of Environment and Resource Management, 800 Central Avenue, Prince Albert, Sask. S6V 6G1
Phone: (306) 953-2249 Facsimile: (306) 953-2360
- 2c. Access mechanisms:** By request only. See data centre contact.
- 3a. Parameters measured:**
- plot (number of trees, species, conditions)
- trees (species, DBH, height, age, status)
- 3b. Data acquisition methods:** Field survey. Field measurements.
- 3c. Geographic coverage:** Saskatchewan Commercial Forest Zone.
- 3d. Geographic units of measure:** UTM coordinates and stand number.
- 3e. Period of record:** 1947 to present.
- 3f. Update frequency:** Irregular.
- 4a. Database storage format:** 9-track tape, diskette.
- 4b. Database computer environment:** IBM mainframe.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** Growth and Yield technical reports - Forestry Canada, provincial and others.
- 8. Languages:** English.
- 9. User aids available:** System and User's manuals.
- 10. Keywords:** Forestry; Forests; Trees
- 11. Additional information:** Old imperial data measurements converted to metric.

Gut Can Counts

GCC-0151-E

- 1. Summary description:** Database contains data collected from Gut Can counts at fish cleaning huts on various lakes.
- 2a. Responsible organization:** Department of Environment and Resource Management
- 2b. Database contact:** Mr. Grant Hamilton, Supervisor, Data Services, Fisheries Branch, Department of Environment and Re-

source Management, 3211 Albert Street, Regina, Sask. S4S 5W6

Phone: (306) 787-7603 Facsimile: (306) 787-0737

- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- lake
- species
- numbers
- 3b. Data acquisition methods:** Field reporting.
- 3c. Geographic coverage:** Saskatchewan.
- 3d. Geographic units of measure:** Lake code.
- 3e. Period of record:** 1987 to 1992.
- 3f. Update frequency:** Annually.
- 4a. Database storage format:** Hard disk.
- 4b. Database computer environment:** IBM mainframe.
- 5. Restrictions and conditions:** Generally no restrictions.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Fish; Prairies; Wildlife
- 11. Additional information:** None.

HAL (Substance Spills)

HAL-0191-E

- 1. Summary description:** HAL is a database that contains a list of spills and the level of cleanup that has occurred when any substance that is considered a dangerous good (PCB's, oil and gas, uranium mining tailings) is involved.
- 2a. Responsible organization:** Department of Environment and Resource Management
- 2b. Database contact:** Mr. Ash Oleson, Spill Response Officer, Air and Land Protection Branch, Department of Environment and Resource Management, 3085 Albert Street, Regina, Sask. S4S 0B1
Phone: (306) 787-0738 Facsimile: (306) 787-0197
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- spill information (date spill occurred, type of spill, cause of spill, volume, parties responsible, parties notified, fire/police response, remediation measures, disposal)
- 3b. Data acquisition methods:** Monitoring. Verbal reports and follow-up inspection.
- 3c. Geographic coverage:** Saskatchewan.
- 3d. Geographic units of measure:** Not applicable.
- 3e. Period of record:** 1981 to present.
- 3f. Update frequency:** As required.
- 4a. Database storage format:** Hard disk.
- 4b. Database computer environment:** Macintosh.
- 5. Restrictions and conditions:** Unknown at this time.
- 6. Price information:** Not established.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Environmental Science; Prairies; Toxic chemicals
- 11. Additional information:** None.

Lake Master

LM-0155-E

1. **Summary description:** An inventory of all lakes managed by the department from a Fisheries point of view.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Mr. William Sawchyn, Supervisor, Biological Services, Fisheries Branch, Department of Environment and Resource Management, 112 Research Drive, Saskatoon, Sask. S7K 2H6
Phone: (306) 933-5776 *Facsimile:* (306) 933-5773
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - lake (code, name, location)
 - watershed information
 - administrative zone
- 3b. **Data acquisition methods:** Survey. Field data.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** As management of a lake is undertaken.
- 4a. **Database storage format:** Hard disk.
- 4b. **Database computer environment:** PC, DBASE.
5. **Restrictions and conditions:** Generally no restrictions.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Fish; Hydrology; Lakes
11. **Additional information:** None.

Lake Species Database

LSD-0159-E

1. **Summary description:** Database containing information on which species of fish are present in the lakes.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Mr. William Sawchyn, Supervisor, Biological Services, Fisheries Branch, Department of Environment and Resource Management, 112 Research Drive, Saskatoon, Sask. S7K 2H6
Phone: (306) 933-5776 *Facsimile:* (306) 933-5773
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - lake (name, code)
 - presence of species
- 3b. **Data acquisition methods:** Field reports.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** Lake code, latitude and longitude or township and range.
- 3e. **Period of record:** Cumulative to present.
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Hard disk.
- 4b. **Database computer environment:** PC, DBASE.
5. **Restrictions and conditions:** Generally no restrictions.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.

10. **Keywords:** Fish; Lakes; Wildlife11. **Additional information:** None.

Land Disposition Information System

LDI-0199-E

1. **Summary description:** A database to track Crown Land dispositions in the Northern Administration District of the province of Saskatchewan. The database includes all land dispositions issued in the Northern Saskatchewan Administrative District including cottages, trapping cabins, outfitting camps, mineral, quarry, oil and gas leases.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Mr. Colin McConnell, Director, Systems Services Branch, Department of Environment and Resource Management, 3211 Albert Street, Regina, Sask. S4S 5W6
Phone: (306) 787-0251 *Facsimile:* (306) 787-3913
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - disposition holders (name, address, land location, size, accounting information)
- 3b. **Data acquisition methods:** Monitoring. Land dispositions issued.
- 3c. **Geographic coverage:** Northern half of Saskatchewan.
- 3d. **Geographic units of measure:** Latitude and longitude, section and township, legal plan of survey.
- 3e. **Period of record:** 1960 to present.
- 3f. **Update frequency:** Daily.
- 4a. **Database storage format:** Hard disk.
- 4b. **Database computer environment:** PC, CLIPPER.
5. **Restrictions and conditions:** Freedom of Information and Privacy Act may apply.
6. **Price information:** \$5.00 for photocopying or for large requests under FOI Act.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** Operating procedures and systems documentation.
10. **Keywords:** Geography; Land use; Prairies
11. **Additional information:** None.

Non-Forested Productive Land Survey

NFP-0138-E

1. **Summary description:** An inventory that describes the status of areas surveyed for regeneration.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Mr. Keith Gorham, Renewal Co-ordinator, Forestry Branch, Department of Environment and Resource Management, P.O. Box 3003, Prince Albert, Sask. S6V 6G1
Phone: (306) 953-2357 *Facsimile:* (306) 953-2360
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - stocking (number of trees) on areas surveyed
- 3b. **Data acquisition methods:** Aerial or field surveys. Paper records from aerial or ground survey.
- 3c. **Geographic coverage:** Saskatchewan Forest.
- 3d. **Geographic units of measure:** Hectares.
- 3e. **Period of record:** 1989 to present.
- 3f. **Update frequency:** Irregularly, annually.

- 4a. **Database storage format:** Hardcopy, hard disk.
- 4b. **Database computer environment:** PC.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Annual Reports.
8. **Languages:** English.
9. **User aids available:** User's manual.
10. **Keywords:** Forestry; Land use; Landscape
11. **Additional information:** None.

Northern Reconnaissance Inventory

NRI-0148-E

1. **Summary description:** A Forest-cover/type inventory of the Saskatchewan Northern Reconnaissance zone on Provincial Forest and stand and stock tables.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Ms. Fern Gruszka, Department of Environment and Resource Management, 800 Central Avenue, Prince Albert, Sask. S6V 6G1
Phone: (306) 953-2249 *Facsimile:* (306) 953-2360
- 2c. **Access mechanisms:** By request only. See data centre contact.
- 3a. **Parameters measured:**
 - productive land (by cover type)
 - non-productive
 - not available
 - productive non-forested
 - stand and stock tables (growth type, volume, species, height, crown closure, diameter, volume, number of trees)
- 3b. **Data acquisition methods:** Aerial photography, field sampling. Air photo interpretation and field data analysis.
- 3c. **Geographic coverage:** NTS mapsheets, 64E, 64D, 74A, 74B, Saskatchewan.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1973 to 1976.
- 3f. **Update frequency:** No updates since 1978.
- 4a. **Database storage format:** 9-track tape, diskette.
- 4b. **Database computer environment:** IBM mainframe.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** National Forest Inventory Publications.
8. **Languages:** English.
9. **User aids available:** System and User's manuals.
10. **Keywords:** Forestry; Forests; Trees
11. **Additional information:** Units of measurement are metric.

Operation Burrowing Owl

OBO-0059-E

1. **Summary description:** An inventory of the location, land owner and numbers since 1987, and protected status of sites occupied by Burrowing Owls.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Ms. Heather Dundas, Operation Burrowing Owl, Saskatchewan Natural History Society, Box 4348, Regina, Sask. S4P 3W6
Phone: (306) 780-9273 *Facsimile:* (306) 781-6021
- 2c. **Access mechanisms:** Through the technical contact.

- 3a. **Parameters measured:**
 - location (quarter section)
 - number of pairs present
 - number of acres of habitat
- 3b. **Data acquisition methods:** Monitoring. Visits and counts by staff. Information from land owners.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** Acres.
- 3e. **Period of record:** 1987 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC, PC WORKS.
5. **Restrictions and conditions:** Reasonable uses only. Landowner names withheld.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Operation Burrowing Owl Annual Reports prepared by Saskatchewan Natural History Society.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Birds; Prairies; Wildlife
11. **Additional information:** None.

Provincially Regulated PCB Storage Sites

PCB-0190-E

1. **Summary description:** A database created to monitor the movement of PCB material as it is removed from service.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Ms. Monica Krahe-Solomon, Waste Management Officer, Industrial and Hazardous Waste Unit, Department of Environment and Resource Management, 3085 Albert Street, Regina, Sask. S4S 0B1
Phone: (306) 787-2255 *Facsimile:* (306) 787-0197
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - amount of PCB material that has been taken out of service
- 3b. **Data acquisition methods:** Reporting. Paper material from owners.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1989 to 1993.
- 3f. **Update frequency:** Every six months (July and January).
- 4a. **Database storage format:** Hard disk.
- 4b. **Database computer environment:** PC, LOTUS 123.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Contaminants; Prairies; Waste
11. **Additional information:** None.

Reports by Lake and by Author

REP-0154-E

1. **Summary description:** An inventory of reports relating to fish.
- 2a. **Responsible organization:** Department of Environment and Resource Management

2b. Database contact: Mr. William Sawchyn, Supervisor, Biological Services, Fisheries Branch, Department of Environment and Resource Management, 112 Research Drive, Saskatoon, Sask. S7K 2H6

Phone: (306) 933-5776 *Facsimile:* (306) 933-5773

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- author name
- report (title, type)
- waterbody
- date

3b. Data acquisition methods: Not applicable.

3c. Geographic coverage: Saskatchewan.

3d. Geographic units of measure: Not applicable.

3e. Period of record: 1926 to present.

3f. Update frequency: As prepared.

4a. Database storage format: Hard disk.

4b. Database computer environment: PC.

5. Restrictions and conditions: Generally no restrictions.

6. Price information: No charge.

7. Corresponding printed sources: None.

8. Languages: English.

9. User aids available: None.

10. Keywords: Fish; Prairies; Research

11. Additional information: None.

Sanitary Landfill Inventory

SAN-0197-E

1. Summary description: A database containing information on all sanitary landfill sites operated by the department in provincial parks and recreation sites. These sites are registered with the Environmental Protection Division.

2a. Responsible organization: Department of Environment and Resource Management

2b. Database contact: Mr. Gary Wyatt, Supervisor, Engineering Design Section, Maintenance and Construction Branch, Department of Environment and Resource Management, 3211 Albert Street, Regina, Sask. S4S 5W6

Phone: (306) 787-2842 *Facsimile:* (306) 787-4218

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- site (name, location, description)
- approval status
- general comments

3b. Data acquisition methods: Monitoring. Internal registration.

3c. Geographic coverage: Provincial parks and recreation sites in Saskatchewan.

3d. Geographic units of measure: Latitude and longitude.

3e. Period of record: List began in approximately 1991.

3f. Update frequency: As required.

4a. Database storage format: Diskette.

4b. Database computer environment: PC.

5. Restrictions and conditions: Freedom of Information and Privacy Act may apply.

6. Price information: No charge.

7. Corresponding printed sources: None.

8. Languages: English.

9. User aids available: None.

10. Keywords: Engineering; Prairies; Waste

11. Additional information: The database is a short list of all disposal sites in provincial parks.

Sewage Treatment Plant/Lagoon Inventory

STP-0198-E

1. Summary description: A database of all plants and lagoons operated by the department in provincial parks and recreational areas.

2a. Responsible organization: Department of Environment and Resource Management

2b. Database contact: Mr. Gary Wyatt, Supervisor, Engineering Design Section, Maintenance and Construction Branch, Department of Environment and Resource Management, 3211 Albert Street, Regina, Sask. S4S 5W6

Phone: (306) 787-2842 *Facsimile:* (306) 787-4218

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- site (name, location)
- systems description
- approval status
- general comments

3b. Data acquisition methods: Monitoring. Internal reports.

3c. Geographic coverage: Provincial parks and recreation areas of Saskatchewan.

3d. Geographic units of measure: Latitude and longitude.

3e. Period of record: 1991 to present.

3f. Update frequency: As required.

4a. Database storage format: Diskette.

4b. Database computer environment: PC.

5. Restrictions and conditions: Freedom of Information and Privacy Act may apply.

6. Price information: No charge.

7. Corresponding printed sources: None.

8. Languages: English.

9. User aids available: None.

10. Keywords: Human Health; Parks; Prairies; Waste

11. Additional information: None.

Site Preparation Records (Forests)

SPR-0135-E

1. Summary description: A small database of areas prepared for tree planting.

2a. Responsible organization: Department of Environment and Resource Management

2b. Database contact: Mr. Keith Gorham, Renewal Co-ordinator, Forestry Branch, Department of Environment and Resource Management, P.O. Box 3003, Prince Albert, Sask. S6V 6G1

Phone: (306) 953-2357 *Facsimile:* (306) 953-2360

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- area prepared for planting
- cost
- contractor
- equipment used
- number of plantable spots

3b. Data acquisition methods: Monitoring. Paper records.

3c. Geographic coverage: Saskatchewan Forest.

3d. Geographic units of measure: Hectares.

3e. Period of record: 1951 to present.

3f. Update frequency: Annually.

4a. Database storage format: Hardcopy, maps, hard disk.

4b. Database computer environment: PC.

5. Restrictions and conditions: None.

6. **Price information:** No charge.
7. **Corresponding printed sources:** Annual reports.
8. **Languages:** English.
9. **User aids available:** User's manual.
10. **Keywords:** Forestry; Forests; Trees
11. **Additional information:** None.

SPEAC (Wildlife)

SPE-0014-E

1. **Summary description:** A database containing information including accounts of wildlife sightings in wetlands in Saskatchewan. Endangered species are also noted.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Mr. Alan Arsenault, Mr. Mike Gollop, Crop Damage Control Program, Wildlife Branch, Department of Environment and Resource Management, 112 Research Drive, Saskatoon, Sask. S7K 2H6
Phone: (306) 933-5766 *Facsimile:* (306) 933-5797
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - species
 - number
 - date
 - location
 - comments
- 3b. **Data acquisition methods:** Formal surveys, opportunities surveys.
- 3c. **Geographic coverage:** Agricultural Saskatchewan concentrated approximately to wetlands.
- 3d. **Geographic units of measure:** Legal survey system, inventory by 1:50 000 map sheets.
- 3e. **Period of record:** 1970 to present.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hard disk.
- 4b. **Database computer environment:** PC.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Wildlife Technical Reports.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Birds; Wetlands; Wildlife
11. **Additional information:** None.

Stand Tending Records (Forests)

STR-0137-E

1. **Summary description:** A small database consisting of areas treated for vegetation control.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Mr. Keith Gorham, Renewal Co-ordinator, Forestry Branch, Department of Environment and Resource Management, P.O. Box 3003, Prince Albert, Sask. S6V 6G1
Phone: (306) 953-2357 *Facsimile:* (306) 953-2360
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - area treated for vegetation control of competing vegetation
- 3b. **Data acquisition methods:** Monitoring. Paper records.
- 3c. **Geographic coverage:** Saskatchewan Forest.
- 3d. **Geographic units of measure:** Hectares.

- 3e. **Period of record:** 1970 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, hard disk, diskette.
- 4b. **Database computer environment:** PC.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Annual reports. National Forest Database.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Forestry; Forests; Trees
11. **Additional information:** None.

Stem Analysis (Forests)

SA-0146-E

1. **Summary description:** An inventory of stem analysis data, tree and section measurements with computed volumes.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Ms. Fern Gruszka, Department of Environment and Resource Management, 800 Central Avenue, Prince Albert, Sask. S6V 6G1
Phone: (306) 953-2249 *Facsimile:* (306) 953-2360
- 2c. **Access mechanisms:** By request only. See data centre contact.
- 3a. **Parameters measured:**
 - species (DBH, height, volume, rot)
- 3b. **Data acquisition methods:** Field survey. Field measurements.
- 3c. **Geographic coverage:** Saskatchewan Commercial Forest Zone.
- 3d. **Geographic units of measure:** UTM coordinates, NTS mapsheets.
- 3e. **Period of record:** 1947 to 1984.
- 3f. **Update frequency:** Irregularly.
- 4a. **Database storage format:** 9-track tape, diskette.
- 4b. **Database computer environment:** IBM mainframe.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Various technical reports on paper volume equations (FORCAN) and various provincial reports.
8. **Languages:** English.
9. **User aids available:** Systems and User's manuals.
10. **Keywords:** Forestry; Forests; Trees
11. **Additional information:** Old imperial measurements converted to metric. Newer measurements collected in metric units.

Storage Facility Management Program

SFM-0036-E

1. **Summary description:** An inventory of all hazardous substances and waste dangerous goods storage facilities within the province of Saskatchewan.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Mr. Darcy Hislop, Systems Services Branch, Department of Environment and Resource Management, 3211 Albert Street, Regina, Sask. S4S 5W6
Phone: (306) 787-0599 *Facsimile:* (306) 787-3919
- 2c. **Access mechanisms:** Through the responsible organization.

- 3a. Parameters measured:**
- substance stored (type, quantity)
 - storage medium information
- 3b. Data acquisition methods:** Survey. Hazardous Substances and Waste Dangerous Goods Registration Form.
- 3c. Geographic coverage:** Saskatchewan.
- 3d. Geographic units of measure:** Not applicable.
- 3e. Period of record:** 1989 to present.
- 3f. Update frequency:** Daily.
- 4a. Database storage format:** Novell network, hard disk.
- 4b. Database computer environment:** PC, NOVELL.
- 5. Restrictions and conditions:** Not accessible by the public.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Contaminants; Prairies; Toxic chemicals
- 11. Additional information:** None.

Terrestrial Wildlife Habitat Inventory

TWH-0128-E

- 1. Summary description:** An inventory consisting of four maps of land systems, land tenure, land use and critical wildlife habitat and accompanying descriptions of each.
- 2a. Responsible organization:** Department of Environment and Resource Management
- 2b. Database contact:** Mr. Wayne Pepper, Supervisor, Education and Research Unit, Wildlife Branch, Department of Environment and Resource Management, 3211 Albert Street, Regina, Sask. S4S 5W6
Phone: (306) 787-7815 *Facsimile:* (306) 787-9544
 Central Surveying and Mapping Agency, 2045 Broad Street, Regina, Sask. S4P 3V7
Phone: (306) 787-2581
- 2c. Access mechanisms:** Through Central Surveying and Mapping Agency.
- 3a. Parameters measured:**
 - habitat capability for wildlife
- 3b. Data acquisition methods:** Soil maps, aerial and LIFT photography and ground trooping. Soil maps originate with the Saskatchewan Soil Survey. Black and white air photo interpretation as well as LIFT photography from Agriculture Canada.
- 3c. Geographic coverage:** All of agricultural Saskatchewan.
- 3d. Geographic units of measure:** 1:250 000 scale topographic maps.
- 3e. Period of record:** 1975 to 1981.
- 3f. Update frequency:** No updates since 1981. Certain parts of the data are dated.
- 4a. Database storage format:** Hardcopy, maps.
- 4b. Database computer environment:** Not applicable.
- 5. Restrictions and conditions:** None.
- 6. Price information:** Contact Central Survey and Mapping Agency.
- 7. Corresponding printed sources:** Terrestrial Habitat Inventory Wildlife Technical Report.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Habitats; Prairies; Wildlife
- 11. Additional information:** Types of maps available include: Land system maps depicting major groupings of land forms with similar ecological characteristics; Land tenure maps depicting general ownership of Crown versus deeded; Land use

maps depicting percentage remaining in nature habitat; Critical Wildlife Habitat maps depicting areas with most important or essential habitat for identified species.

Terrestrial Wildlife Habitat Inventory - Critical Wildlife Habitat

TWH-0129-E

- 1. Summary description:** An inventory of areas depicting wildlife game, non-game and endangered species.
- 2a. Responsible organization:** Department of Environment and Resource Management
- 2b. Database contact:** Ms. Lucille Bitz, GIS Database Co-ordinator, Wildlife Branch, Department of Environment and Resource Management, 3211 Albert Street, Regina, Sask. S4S 5W6
Phone: (306) 787-5265 *Facsimile:* (306) 787-9544
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - habitat capability for wildlife
- 3b. Data acquisition methods:** Hardcopy mylar maps. Scanned and digitized.
- 3c. Geographic coverage:** Saskatchewan.
- 3d. Geographic units of measure:** UTM coordinates, 1:250 000 NTS map sheets.
- 3e. Period of record:** 1993 to present.
- 3f. Update frequency:** Continually.
- 4a. Database storage format:** Diskette, 150 mb tape cartridge.
- 4b. Database computer environment:** PC, GIS software.
- 5. Restrictions and conditions:** None.
- 6. Price information:** Under review.
- 7. Corresponding printed sources:** Terrestrial Wildlife Habitat Inventory Manuals and Maps.
- 8. Languages:** English.
- 9. User aids available:** Wildlife Species Codes.
- 10. Keywords:** Geographic Information System; Prairies; Wildlife
- 11. Additional information:** None.

Township Inventory (Forests)

TI-0147-E

- 1. Summary description:** The database consists of a Forest-Cover-Type inventory of the Saskatchewan Commercial Forest Zone and stand and stock tables. The combined information can produce forest inventory reports.
- 2a. Responsible organization:** Department of Environment and Resource Management
- 2b. Database contact:** Ms. Fern Gruszka, Department of Environment and Resource Management, 800 Central Avenue, Prince Albert, Sask. S6V 6G1
Phone: (306) 953-2249 *Facsimile:* (306) 953-2360
- 2c. Access mechanisms:** By request only. See data centre contact.
- 3a. Parameters measured:**
 - area base (productive land by cover type, non-productive, not available, productive non-forested)
 - stand and stock tables (growth type, species, height, density class, diameter class, volume, number of trees)
- 3b. Data acquisition methods:** Aerial survey, monitoring. Air photo interpretation and analysis of field data.
- 3c. Geographic coverage:** Saskatchewan Commercial Forest Zone.
- 3d. Geographic units of measure:** Townships maps.
- 3e. Period of record:** 1959 to 1974.

- 3f. **Update frequency:** Annually updated for areas still used.
- 4a. **Database storage format:** 9-track tape, diskette.
- 4b. **Database computer environment:** IBM mainframe.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** National Forest Inventory. Various provincial publications.
8. **Languages:** English.
9. **User aids available:** Systems and User's manuals.
10. **Keywords:** Forestry; Forests; Trees
11. **Additional information:** Units of measurement are imperial.

Transportation of Dangerous Goods

TDG-0189-E

1. **Summary description:** An inventory that stores data on generators, carriers and receivers of dangerous goods as well as compiling manifest data.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Mr. Kyle Korneychuk, Supervisor, Industrial and Hazardous Waste Unit, Department of Environment and Resource Management, 3085 Albert Street, Regina, Sask. S4S 0B1
Phone: (306) 787-6412 *Facsimile:* (306) 787-0197
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - information regarding (generator, carrier, receiver)
 - manifest information (waste types, waste carried/received)
- 3b. **Data acquisition methods:** Monitoring. Written material (application forms), with registrations from across North America.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1989 to 1992.
- 3f. **Update frequency:** Daily.
- 4a. **Database storage format:** Hard disk.
- 4b. **Database computer environment:** PC, FOXPRO.
5. **Restrictions and conditions:** Data is not available to the public.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** TDG User's manual.
10. **Keywords:** Prairies; Toxic chemicals; Transportation
11. **Additional information:** None.

Tree Plantation Records

TPR-0136-E

1. **Summary description:** A small database of the number of trees planted, area, cost and species.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Mr. Keith Gorham, Renewal Co-ordinator, Forestry Branch, Department of Environment and Resource Management, P.O. Box 3003, Prince Albert, Sask. S6V 6G1
Phone: (306) 953-2357 *Facsimile:* (306) 953-2360
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - number of hectares planted
 - species
 - number of trees planted

- cost seedlot
- tree age

- 3b. **Data acquisition methods:** Monitoring. Paper records.
- 3c. **Geographic coverage:** Saskatchewan Forest.
- 3d. **Geographic units of measure:** Hectares.
- 3e. **Period of record:** 1937 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, maps, hard disk.
- 4b. **Database computer environment:** PC.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Annual Reports. National Forest Database.
8. **Languages:** English.
9. **User aids available:** User's manual.
10. **Keywords:** Forestry; Forests; Trees
11. **Additional information:** None.

UTM Inventory (Forests)

UTM-0143-E

1. **Summary description:** Grid cell based inventory of forest data for 1,600 UTM maps in Saskatchewan Commercial Forest Zone.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Ms. Fern Gruszka, Department of Environment and Resource Management, 800 Central Avenue, Prince Albert, Sask. S6V 6G1
Phone: (306) 953-2249 *Facsimile:* (306) 953-2360
- 2c. **Access mechanisms:** By request only. See data centre contact.
- 3a. **Parameters measured:**
 - classified forest stands (attribute, location)
 - land (non-forested, non-productive, non available)
- 3b. **Data acquisition methods:** Mapping, aerial survey. Digitizing (grid cell). Air photo interpretation, base mapping, manual drafting.
- 3c. **Geographic coverage:** 1,600 maps in Commercial Forest Zone.
- 3d. **Geographic units of measure:** UTM coordinates, NTS map-sheets. Grid cell (62.5 x 62.5 metres).
- 3e. **Period of record:** 1977 to 1988.
- 3f. **Update frequency:** On-going until 1988.
- 4a. **Database storage format:** 9-track tape, diskette.
- 4b. **Database computer environment:** IBM mainframe.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Various technical reports and provincial publications.
8. **Languages:** English.
9. **User aids available:** FB20 System and User's manuals.
10. **Keywords:** Forestry; Forests; Trees
11. **Additional information:** None.

Water Treatment Plant/System Inventory

WTP-0196-E

1. **Summary description:** A database containing information on all water treatment plants and distribution systems operated by the department in provincial parks or recreation sites.

- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Mr. Gary Wyatt, Supervisor, Engineering Design Section, Maintenance and Construction Branch, Department of Environment and Resource Management, 3211 Albert Street, Regina, Sask. S4S 5W6
Phone: (306) 787-2842 *Facsimile:* (306) 787-4218
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - site (name, location)
 - system description
 - approval status
 - general comments
- 3b. **Data acquisition methods:** Monitoring. Internal reports.
- 3c. **Geographic coverage:** Provincial parks and recreation sites in Saskatchewan.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1991 to present.
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC.
5. **Restrictions and conditions:** Freedom of Information and Privacy Act may apply.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Engineering; Prairies; Water
11. **Additional information:** Some of the water treatment plants on this list have a very small capacity.

Waterfowl Compensation

WAT-0130-E

1. **Summary description:** A database of Saskatchewan waterfowl crop damage by quarter section, and the resulting compensation.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Mr. Alan Arsenault or, Mr. Mike Gollop, Program Ecologist/Program Co-ordinator, Waterfowl Crop Damage Program, Wildlife Branch, Department of Environment and Resource Management, 112 Research Drive, Saskatoon, Sask. S7K 2H6
Phone: (306) 933-5766 *Facsimile:* (306) 933-5773
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - crop type
 - bushel loss
 - dollar loss
 - acres damaged
 - land location
 - year
- 3b. **Data acquisition methods:** Crop adjusters. Reports.
- 3c. **Geographic coverage:** Agricultural Saskatchewan.
- 3d. **Geographic units of measure:** Legal survey system (township-range-quarter section).
- 3e. **Period of record:** 1969 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, tape.
- 4b. **Database computer environment:** IBM mainframe.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.

7. **Corresponding printed sources:** Compensation printouts: Township Summary, Bushel Report.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Agriculture; Birds; Prairies
11. **Additional information:** None.

Wildlife Check Station Database

WCH-0077-E

1. **Summary description:** A database that records age classes and conception dates for moose, elk, antelope and white-tailed deer.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Mr. Marlon Killaby, Wildlife Specialist, Wildlife Branch, Department of Environment and Resource Management, 3211 Albert Street, Regina, Sask. S4S 5W6
Phone: (306) 787-9247 *Facsimile:* (306) 787-9544
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - species (moose, elk, antelope white-tailed deer)
 - kill (number, date, sex, age)
 - pregnancy status (number of fetuses, fetus size, conception date)
 - zone
 - antler class
- 3b. **Data acquisition methods:** Biological samples (jaws and reproduction tracts) that are gathered by hunters.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** Wildlife management zones.
- 3e. **Period of record:** 1990 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC, DBASE III+/IV.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Saskatchewan Game Management Reports, 1990-91, 1991-92 and 1992-93.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Mammals; Prairies; Wildlife
11. **Additional information:** None.

Wildlife Habitat Protection Act Lands

WHP-0019-E

1. **Summary description:** An accounting system of Crown leased, important habitat lands designated under the Wildlife Habitat Protection Act.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Mr. Dave Arneson, Crowns Land Biologist, Habitat Unit, Wildlife Branch, Department of Environment and Resource Management, 3211 Albert Street, Regina, Sask. S4S 5W6
Phone: (306) 787-8457 *Facsimile:* (306) 787-9544
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - location (township, range, meridian)
 - name and address of lessees
 - acreage (section, quarter section)
 - constituency

- 3b. **Data acquisition methods:** Aerial survey, and ground trooping.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** Acres.
- 3e. **Period of record:** 1970 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC, DBASE III+/IV.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Terrestrial Wildlife Habitat Inventory Technical Report.
8. **Languages:** English.
9. **User aids available:** Operating procedures and documentation are available.
10. **Keywords:** Habitats; Prairies; Wildlife
11. **Additional information:** File is 7 megabytes in size and can be used on any computer with DBASE III+ or IV.

Wood Flow

WF-0139-E

1. **Summary description:** An inventory of timber status and movement on a monthly basis as reported by industry.
- 2a. **Responsible organization:** Department of Environment and Resource Management
- 2b. **Database contact:** Ms. Barb Janke, Department of Environment and Resource Management, 800 Central Avenue, Prince Albert, Sask. S6V 6G1
Phone: (306) 953-2451 *Facsimile:* (306) 953-2360
- 2c. **Access mechanisms:** By request only. See data centre contact.
- 3a. **Parameters measured:**
 - timber harvested (gross quantities, moved to mills, exported)
- 3b. **Data acquisition methods:** Reporting. Monthly summaries of industry activity.
- 3c. **Geographic coverage:** Saskatchewan Provincial Forest.
- 3d. **Geographic units of measure:** UTM coordinates, NTS map-sheet.
- 3e. **Period of record:** 1980 to present.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** 9-track tape, diskette.
- 4b. **Database computer environment:** IBM mainframe.
5. **Restrictions and conditions:** Limited access.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** System and User's manuals.
10. **Keywords:** Forestry; Forests; Trees
11. **Additional information:** None.



Department of Health

Cancer Registry

CAN-0172-E

1. **Summary description:** Cancer services data are maintained in the population-based cancer registry which has a record of all people in Saskatchewan who are diagnosed as having cancer. The registry increases by about 6,000 cases per year, both confirmed and suspected cases of cancer are registered.
- 2a. **Responsible organization:** Department of Health
- 2b. **Database contact:** Mr. Bob Lane, Corporate Information and Technology Branch, Department of Health, 2nd Floor, East Wing, 3475 Albert Street, Regina, Sask. S4S 6X6
Phone: (306) 787-3991 *Facsimile:* (306) 787-7589
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - death information (primary and secondary cause, disease status at death)
 - case information (registration)
 - final diagnostic information (ICD 9, ICDO-T, ICDO-M, grade, laterality, dates of diagnosis, method of diagnosis, TNM stage, metastasis at diagnosis)
 - review information (review date, recurrence, metastasis, treatment, performance)
- 3b. **Data acquisition methods:** Reports. Cancer clinics, hospitals.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1930 to present. Complete computerized data are available since 1967. Pre-1967 data are being computerized retroactively. Breast cancer data are now computerized from 1960 to the present.
- 3f. **Update frequency:** Irregularly.
- 4a. **Database storage format:** Tape.
- 4b. **Database computer environment:** IBM mainframe, COBOL, SAS, EASYTRIEVE.
5. **Restrictions and conditions:** Data on individuals is confidential.
6. **Price information:** There may be some charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Health; Human Health; Prairies
11. **Additional information:** All ICDA-8 codes have been converted to ICD-9 codes.

Hospital Separation Data

HSD-0171-E

1. **Summary description:** A database containing information on every hospital separation, thus creating a data bank of diagnostic and other health information on a defined population.
- 2a. **Responsible organization:** Department of Health
- 2b. **Database contact:** Mr. Bob Lane, Corporate Information and Technology Branch, Department of Health, 2nd Floor, East Wing, 3475 Albert Street, Regina, Sask. S4S 6X6
Phone: (306) 787-3991 *Facsimile:* (306) 787-7589
- 2c. **Access mechanisms:** Through the responsible organization.

3a. Parameters measured:

- patient information (sex, year and month of birth)
- diagnostic and treatment information (discharge diagnoses, primary procedure, accident code)
- separation information (length of stay)

3b. Data acquisition methods: Reports. Hospital medical records.

3c. Geographic coverage: Saskatchewan.

3d. Geographic units of measure: Not applicable.

3e. Period of record: 1970 to present.

3f. Update frequency: Continually.

4a. Database storage format: Tape.

4b. Database computer environment: IBM mainframe, COBOL, SAS, EASYTRIEVE.

5. Restrictions and conditions: None.

6. Price information: There may be some charge.

7. Corresponding printed sources: None.

8. Languages: English.

9. User aids available: None.

10. Keywords: Health; Human Health; Prairies

11. Additional information:

1. In 1989-90, there were 206,796 separations for adults and children and 16,849 separations for newborns.
2. All ICDA-8 codes have been converted to CCP (Canadian Classification of Diagnostic, Therapeutic and Surgical Procedures) and ICD-9 codes.



Department of Labour

Occupational Hygiene Company Files

OHC-0329-E

- 1. Summary description:** An inventory of company inspection data containing reports, letters, memos and contraventions.
- 2a. Responsible organization:** Department of Labour
- 2b. Database contact:** Mr. Herb Wooley, Senior Occupational Hygienist, Occupational Health, Department of Labour, 6th Floor, 1870 Albert Street, Regina, Sask. S4P 3V7
Phone: (306) 787-4496 Facsimile: (306) 787-2208
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - air contamination
 - laboratory results
 - ventilation assessment
 - work practice assessment
 - hazardous material management
- 3b. Data acquisition methods:** Monitoring. On site testing by government staff or results of self assessment by employers.
- 3c. Geographic coverage:** Saskatchewan.
- 3d. Geographic units of measure:** Workplaces.
- 3e. Period of record:** 1961 to present. Complete since 1979, some data date back to 1961.
- 3f. Update frequency:** As required.
- 4a. Database storage format:** Hardcopy.
- 4b. Database computer environment:** Not applicable.
- 5. Restrictions and conditions:** Freedom of Information Act, Government of Saskatchewan.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.

8. Languages: English.

9. User aids available: None.

10. Keywords: Chemicals; Human Health; Workplace

11. Additional information: None.



Saskatchewan Conservation Data Centre

Conservation Contacts

CON-0206-E

- 1. Summary description:** Names, phone numbers, and areas of expertise of individuals and organizations dealing with conservation.
- 2a. Responsible organization:** Saskatchewan Conservation Data Centre
- 2b. Database contact:** Mr. Jeff Keith, Data Manager, Saskatchewan Conservation Data Centre, 3211 Albert Street, Regina, Sask. S4S 5W6
Phone: (306) 787-7196 Facsimile: (306) 787-7085
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - identifiers
 - address and phone
 - locators (institution, province, city)
 - description (nickname, title, personal)
 - events (dates, event note, abstract, keywords)
 - education
 - work experience
 - publications and citations
- 3b. Data acquisition methods:** Collection. Literature review.
- 3c. Geographic coverage:** Saskatchewan.
- 3d. Geographic units of measure:** UTM coordinates, township and range.
- 3e. Period of record:** To date.
- 3f. Update frequency:** Continually.
- 4a. Database storage format:** Hardcopy, hard disk.
- 4b. Database computer environment:** PC, ADREV.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** On-line help screens.
- 10. Keywords:** Biota; Prairies; Wildlife
- 11. Additional information:** None.

Conservation Source Abstracts

CSA-0204-E

- 1. Summary description:** Citations, abstracts, filing locations, and associated information on literature related to biodiversity conservation.
- 2a. Responsible organization:** Saskatchewan Conservation Data Centre
- 2b. Database contact:** Mr. Jeff Keith, Data Manager, Saskatchewan Conservation Data Centre, 3211 Albert Street, Regina, Sask. S4S 5W6
Phone: (306) 787-7196 Facsimile: (306) 787-7085

- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- subject
 - source code
 - citation
 - shelf note
 - geographic coverage
 - abstract
- 3b. **Data acquisition methods:** Collection. Literature review.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** UTM coordinates, township and range.
- 3e. **Period of record:** To date.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy, hard disk.
- 4b. **Database computer environment:** PC, ADREV.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** On-line help screens.
10. **Keywords:** Biodiversity; Environmental Science; Prairies
11. **Additional information:** None.

Conservation Tracts

CT-0217-E

1. **Summary description:** Ownership and legal information on land parcels important to the conservation of rare plants, animals and communities.
- 2a. **Responsible organization:** Saskatchewan Conservation Data Centre
- 2b. **Database contact:** Mr. Jeff Keith, Data Manager, Saskatchewan Conservation Data Centre, 3211 Albert Street, Regina, Sask. S4S 5W6
Phone: (306) 787-7196 *Facsimile:* (306) 787-7085
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- identifiers
 - locators
 - description
 - ownership
 - interests and rights held by others
 - value
 - status
 - ownership history
 - additional topics
 - references
- 3b. **Data acquisition methods:** Collection. Literature reviews and changing legislation.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** UTM coordinates, township and range.
- 3e. **Period of record:** To date.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy, hard disk.
- 4b. **Database computer environment:** PC, ADREV.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** On-line help screen.
10. **Keywords:** Habitats; Prairies; Wildlife

11. **Additional information:** None.

Eco-monitoring/Eco-Visits

EM-0210-E

1. **Summary description:** A database allowing time-series tracking of parameters important to rare plants, animals, communities or managed areas.
- 2a. **Responsible organization:** Saskatchewan Conservation Data Centre
- 2b. **Database contact:** Mr. Jeff Keith, Data Manager, Saskatchewan Conservation Data Centre, 3211 Albert Street, Regina, Sask. S4S 5W6
Phone: (306) 787-7196 *Facsimile:* (306) 787-7085
- 2c. **Access mechanisms:** Through primary contact.
- 3a. **Parameters measured:**
- monitoring subject
 - goals and objectives
 - monitoring procedure
 - trends and recommendations
 - visit summary
- 3b. **Data acquisition methods:** Collection. Literature review.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** UTM coordinates, township and range.
- 3e. **Period of record:** To date.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy, hard disk.
- 4b. **Database computer environment:** PC, ADREV.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** On-line help screens.
10. **Keywords:** Biota; Prairies; Wildlife
11. **Additional information:** None.

Element Characterization Abstracts (Wildlife)

ECA-0213-E

1. **Summary description:** Natural history information on invertebrates, vertebrates and plants at a Global, National and Sub-national level.
- 2a. **Responsible organization:** Saskatchewan Conservation Data Centre
- 2b. **Database contact:** Mr. Jeff Keith, Data Manager, Saskatchewan Conservation Data Centre, 3211 Albert Street, Regina, Sask. S4S 5W6
Phone: (306) 787-7196 *Facsimile:* (306) 787-7085
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- taxonomy (status)
 - distribution
 - migration (habitat, food habits)
 - ecology
 - phenology/seasonality
 - reproduction
 - management
 - miscellaneous attributes
 - additional topics
 - references
- 3b. **Data acquisition methods:** Collection. Literature review.
- 3c. **Geographic coverage:** Saskatchewan.

- 3d. **Geographic units of measure:** UTM coordinates, township and range.
- 3e. **Period of record:** Historic to date.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy, hard disk.
- 4b. **Database computer environment:** PC, ADREV.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** On-line help screens.
10. **Keywords:** Biota; Prairies; Wildlife
11. **Additional information:** This database consists of nine related databases.

Element Global, National, and Subnational Ranking Form (Wildlife)

EGN-0212-E

1. **Summary description:** Information on global, national and subnational status, contacts, and information sources relating to rare plants, animals and communities.
- 2a. **Responsible organization:** Saskatchewan Conservation Data Centre
- 2b. **Database contact:** Mr. Jeff Keith, Data Manager, Saskatchewan Conservation Data Centre, 3211 Albert Street, Regina, Sask. S4S 5W6
Phone: (306) 787-7196 *Facsimile:* (306) 787-7085
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- identifiers (descriptors)
 - ranking (factors, reasons)
 - needs
 - references
 - record maintenance
- 3b. **Data acquisition methods:** Collection. Literature review.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** UTM coordinates, township and range.
- 3e. **Period of record:** Historic to date.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy, hard disk.
- 4b. **Database computer environment:** PC, ADREV.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** On-line help screens.
10. **Keywords:** Biota; Prairies; Wildlife
11. **Additional information:** This database consists of three datasets. The element global ranking form, the element national ranking form, and the element subnational ranking form.

Element Occurrence File (Wildlife)

EOR-0215-E

1. **Summary description:** Contains information on the location, status and viability of rare plant, animal and communities.
- 2a. **Responsible organization:** Saskatchewan Conservation Data Centre

- 2b. **Database contact:** Mr. Jeff Keith, Data Manager, Saskatchewan Conservation Data Centre, 3211 Albert Street, Regina, Sask. S4S 5W6
Phone: (306) 787-7196 *Facsimile:* (306) 787-7085
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- locators (site, township, range)
 - status
 - description
 - protection
 - ownership
 - record maintenance
- 3b. **Data acquisition methods:** Collection. Literature review and some field surveys.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** UTM coordinates, township and range.
- 3e. **Period of record:** Historic to date.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy, hard disk.
- 4b. **Database computer environment:** PC, ADREV.
5. **Restrictions and conditions:** Location data on threatened elements is restricted.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** On-line help screens.
10. **Keywords:** Endangered species; Prairies; Wildlife
11. **Additional information:** None.

Element Stewardship Abstract (Wildlife)

ES-0214-E

1. **Summary description:** Description of impacts of management and development on elements.
- 2a. **Responsible organization:** Saskatchewan Conservation Data Centre
- 2b. **Database contact:** Mr. Jeff Keith, Data Manager, Saskatchewan Conservation Data Centre, 3211 Albert Street, Regina, Sask. S4S 5W6
Phone: (306) 787-7196 *Facsimile:* (306) 787-7085
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- summary
 - natural history (range, habitat, ecology, impacts)
 - condition
 - research
 - additional topics
 - keywords
- 3b. **Data acquisition methods:** Collection. Literature review.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** UTM coordinates, township and range.
- 3e. **Period of record:** To date.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy, hard disk.
- 4b. **Database computer environment:** PC, ADREV.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** On-line help screens.
10. **Keywords:** Biota; Prairies; Wildlife

11. Additional information: None.

Element Tracking File (Wildlife)

ET-0211-E

1. **Summary description:** The Element Tracking File contains information on taxonomy, status, identification and information sources on rare plants, animals and communities.
- 2a. **Responsible organization:** Saskatchewan Conservation Data Centre
- 2b. **Database contact:** Mr. Jeff Keith, Data Manager, Saskatchewan Conservation Data Centre, 3211 Albert Street, Regina, Sask. S4S 5W6
Phone: (306) 787-7196 *Facsimile:* (306) 787-7085
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - taxonomy (global, national, provincial)
 - status (global, national, provincial)
 - documentation
 - maintenance
- 3b. **Data acquisition methods:** Collection. Literature review.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** UTM coordinates, township and range.
- 3e. **Period of record:** Historic to date.
- 3f. **Update frequency:** Annual.
- 4a. **Database storage format:** Hardcopy, hard disk.
- 4b. **Database computer environment:** PC, ADREV.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** On-line help screens.
10. **Keywords:** Biota; Prairies; Wildlife
11. **Additional information:** None.

Ferruginous Hawk Database

FHA-0073-E

1. **Summary description:** An inventory of known locations of Ferruginous Hawk sites.
- 2a. **Responsible organization:** Saskatchewan Conservation Data Centre
- 2b. **Database contact:** Mr. Jeff Keith, Data Manager, Saskatchewan Conservation Data Centre, 3211 Albert Street, Regina, Sask. S4S 5W6
Phone: (306) 787-7196 *Facsimile:* (306) 787-7085
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - sites of known active nests
 - year of activity
- 3b. **Data acquisition methods:** Monitoring. Observation by naturalists.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** Sites in UTM coordinates and by quarter section.
- 3e. **Period of record:** 1987 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC, ADREV.
5. **Restrictions and conditions:** Valid conservation use.
6. **Price information:** No charge.

7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Birds; Prairies; Wildlife
11. **Additional information:** None.

Managed Areas

MA-0216-E

1. **Summary description:** A summary of ownership, protection status, location and management of Managed Areas.
- 2a. **Responsible organization:** Saskatchewan Conservation Data Centre
- 2b. **Database contact:** Mr. Jeff Keith, Data Manager, Saskatchewan Conservation Data Centre, 3211 Albert Street, Regina, Sask. S4S 5W6
Phone: (306) 787-7196 *Facsimile:* (306) 787-7085
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - identifiers (code, name, alias)
 - locators (county, local jurisdiction, township, range, section)
 - descriptors (acres, boundaries)
 - legal protection status
 - stewardship
 - additional information
- 3b. **Data acquisition methods:** Collection. Literature review and changing legislation.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** UTM coordinates, township and range.
- 3e. **Period of record:** To date.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy, hard disk.
- 4b. **Database computer environment:** PC, ADREV.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** On-line help screens.
10. **Keywords:** Ecology; Land use; Prairies;
11. **Additional information:** None.

Piping Plover Breeding Data

PPB-0057-E

1. **Summary description:** An inventory of written descriptions of breeding locations and annual use by water body.
- 2a. **Responsible organization:** Saskatchewan Conservation Data Centre
- 2b. **Database contact:** Mr. Jeff Keith, Data Manager, Saskatchewan Conservation Data Centre, 3211 Albert Street, Regina, Sask. S4S 5W6
Phone: (306) 787-7196 *Facsimile:* (306) 787-7085
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - breeding pairs
 - specific areas occupied
- 3b. **Data acquisition methods:** Field survey. Counts by walking beaches.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** Specific area occupied.
- 3e. **Period of record:** 1984 to present.

- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC, ADREV.
5. **Restrictions and conditions:** For valid conservation use.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Steel, Margaret, *The 1991 International Piping Plover Breeding Census*, 1991, Saskatchewan Natural History Society. Brochure titled *Prairie Threatened Wildlife - Piping Plover*, Wildlife Branch.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Birds; Prairies; Wildlife
11. **Additional information:** Most breeding areas are mapped on Wildlife Branch's critical habitat maps.

Projects (Conservation)

PRO-0207-E

1. **Summary description:** A summary of information related to projects initiated for conservation purposes.
- 2a. **Responsible organization:** Saskatchewan Conservation Data Centre
- 2b. **Database contact:** Mr. Jeff Keith, Data Manager, Saskatchewan Conservation Data Centre, 3211 Albert Street, Regina, Sask. S4S 5W6
Phone: (306) 787-7196 Facsimile: (306) 787-7085
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - identifiers code/name (project, site, tract)
 - project description
 - financial (expenses, income)
 - approval status
 - record maintenance
- 3b. **Data acquisition methods:** Collection. Literature review.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** UTM coordinates, township and range.
- 3e. **Period of record:** To date.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy, hard disk.
- 4b. **Database computer environment:** PC, ADREV.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** On-line help screens.
10. **Keywords:** Biota; Prairies; Wildlife
11. **Additional information:** This database is related to the Tract Transaction Tracking Database (TTTRACK).

Sites (Wildlife)

SIT-0209-E

1. **Summary description:** A bio-ecological description of land parcels important to rare plants, animals and communities.
- 2a. **Responsible organization:** Saskatchewan Conservation Data Centre
- 2b. **Database contact:** Mr. Jeff Keith, Data Manager, Saskatchewan Conservation Data Centre, 3211 Albert Street, Regina, Sask. S4S 5W6
Phone: (306) 787-7196 Facsimile: (306) 787-7085
- 2c. **Access mechanisms:** Through the responsible organization.

- 3a. **Parameters measured:**
 - identifiers
 - site (name, code, alias, description)
 - locators (county name, local jurisdiction, section, meridian, directions, watershed)
 - key environmental factors
 - elevation (minimum, maximum)
 - climate description
 - landuse history
 - cultural features
- 3b. **Data acquisition methods:** Collection. Literature review.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** UTM coordinates, township and range.
- 3e. **Period of record:** To date.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hard disk. Hard copy available.
- 4b. **Database computer environment:** PC, ADREV.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** On-line help screens.
10. **Keywords:** Biota; Prairies; Wildlife
11. **Additional information:** None.

Tract Transaction Tracking

TTT-0205-E

1. **Summary description:** Tract specific information on real estate transactions.
- 2a. **Responsible organization:** Saskatchewan Conservation Data Centre
- 2b. **Database contact:** Mr. Jeff Keith, Data Manager, Saskatchewan Conservation Data Centre, 3211 Albert Street, Regina, Sask. S4S 5W6
Phone: (306) 787-7196 Facsimile: (306) 787-7085
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - identifiers (sitename, tractname)
 - transaction information (tract acres, price, acquisition date)
 - option and contract information
 - interest and rights
- 3b. **Data acquisition methods:** Collection. Literature review.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** UTM coordinates, township and range.
- 3e. **Period of record:** To date.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy, hard disk.
- 4b. **Database computer environment:** PC, ADREV.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** On-line help screen.
10. **Keywords:** Land use; Prairies; Wildlife
11. **Additional information:** None.



Saskatchewan Water Corporation

Ground Water Project Data

GWP-0115-E

1. **Summary description:** An inventory of project and client data on all ground water projects approved in the province. The database contains approximately 2,500 records.
- 2a. **Responsible organization:** Saskatchewan Water Corporation
- 2b. **Database contact:** Mr. Tom S. Kaminski, Registrar, Water Management Division, Saskatchewan Water Corporation, 111 Fairford Street East, Moose Jaw, Sask. S6H 7X9
Phone: (306) 694-3965 Facsimile: (306) 694-3944
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - proponents name
 - region (map number, major basin number, sub-basin number)
 - source of supply
 - land location
 - water quality (depth of aquifer, annual allocation, rate of diversion)
 - volume measured (water level measured, observation wells)
- 3b. **Data acquisition methods:** Registration. All projects need to acquire a Water Rights License from SaskWater.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** Quarter section.
- 3e. **Period of record:** 1960 to present.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC.
5. **Restrictions and conditions:** None.
6. **Price information:** There is a charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** Some user information and a detailed list of fields are available.
10. **Keywords:** Hydrology; Prairies; Water quantity
11. **Additional information:** None.

Groundwater Well and Test Hole Records

GWW-0116-E

1. **Summary description:** A data base comprised of complete well descriptions including the lithology of all wells and test holes completed in the province of Saskatchewan. The database contains over 100,000 records.
- 2a. **Responsible organization:** Saskatchewan Water Corporation
- 2b. **Database contact:** Mr. Tom S. Kaminski, Registrar, Water Management Division, Saskatchewan Water Corporation, 111 Fairford Street East, Moose Jaw, Sask. S6H 7X9
Phone: (306) 694-3965 Facsimile: (306) 694-3944
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - file number

- WELL A (owner name, driller name, date completed, water level, water struck, artesian head, location of well, water use, temperature, basin number)
- WELL B (depth, primary material, material colour, material description)
- WELL C (specific capacity, permeability, coefficient of transmissivity, coefficient of storage, producing aquifer, chemical analysis, total hardness, calcium hardness, Fe, Mn, Ca, Mg, Na, HCO₃, CO₃, Cl⁻, SO₄²⁻, NO₃⁻, Fi, total dissolved solids, total alkalinity, conductivity, pH, comments)

- 3b. **Data acquisition methods:** Registration. The Groundwater Conservation Act requires that all water well drillers be registered and submit reports.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** Quarter section with distances in feet from boundary lines.
- 3e. **Period of record:** 1960 to present.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Diskette, printout, microfiche.
- 4b. **Database computer environment:** PC, FOXPLO, VAX.
5. **Restrictions and conditions:** None.
6. **Price information:** There is a charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** Some user information and a detailed list of fields are available.
10. **Keywords:** Hydrology; Prairies; Water quality
11. **Additional information:** Because of the large number of records and variables, the records were split into 3 separate data bases. WELL A contains the general description of the well or test hole consisting of 68 variables. WELL B contains the Drillers Log, a description of the material encountered. WELL C contains 97 variables. WELL C contains the chemical analysis portion and any special comments made by the driller on the Drillers Report for a total of 28 variables.

Historic Well Inventory

HWI-0117-E

1. **Summary description:** A collection of microfiche that lists water supply papers published for Saskatchewan. These papers are based on an inventory of water wells that the Geologic Survey of Canada compiled between 1935 and 1948. In total, 292 water supply papers were published for Saskatchewan. Each paper gives an overview of the groundwater resources in the study area, including a listing of all farm wells in use at that time.
- 2a. **Responsible organization:** Saskatchewan Water Corporation
- 2b. **Database contact:** Mr. Tom S. Kaminski, Registrar, Water Management Division, Saskatchewan Water Corporation, 111 Fairford Street East, Moose Jaw, Sask. S6H 7X9
Phone: (306) 694-3965 Facsimile: (306) 694-3944
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - regional municipality
 - local improvement district
- 3b. **Data acquisition methods:** Field survey.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** Quarter section.
- 3e. **Period of record:** 1935 to 1948.
- 3f. **Update frequency:** Not applicable.
- 4a. **Database storage format:** Microfiche.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.

6. **Price information:** \$150.00 per microfiche set.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** Some microfiche user information is available.
10. **Keywords:** Hydrology; Prairies; Water
11. **Additional information:** Because of the large number of records and variables, the records were split into 3 separate data bases. WELL A contains the general description of the well or test hole consisting of 68 variables. WELL B contains the Drillers Log, a description of the material encountered. WELL C contains 97 variables. WELL D contains the chemical analysis portion and any special comments made by the driller on the Drillers Report for a total of 28 variables.

Saskatchewan Community Water Use Records

SCW-0119-E

1. **Summary description:** An inventory of monthly and yearly water consumption data from 525 municipalities across Saskatchewan.
- 2a. **Responsible organization:** Saskatchewan Water Corporation
- 2b. **Database contact:** Mr. S.I. Khan, Engineering Branch, Saskatchewan Water Corporation, 111 Fairford Street East, Moose Jaw, Sask. S6H 7X9
Phone: (306) 694-3970 *Facsimile:* (306) 694-3944
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- water consumption
- 3b. **Data acquisition methods:** Survey. All towns and communities submit a monthly water use report.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** Community name.
- 3e. **Period of record:** 1985 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC.
5. **Restrictions and conditions:** None.
6. **Price information:** There is a charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Engineering; Prairies; Water
11. **Additional information:** None.

SaskWater E-log Data

SED-0118-E

1. **Summary description:** A collection of microfiche that consists of nearly 11,000 individual electric logs collected in groundwater test holes since the early 1960's. Not included in this database are electric logs from deep structural test holes, oil and mining related logs and logs related to highway construction.
- 2a. **Responsible organization:** Saskatchewan Water Corporation
- 2b. **Database contact:** Mr. Tom S. Kaminski, Registrar, Water Management Division, Saskatchewan Water Corporation, 111 Fairford Street East, Moose Jaw, Sask. S6H 7X9
Phone: (306) 694-3965 *Facsimile:* (306) 694-3944
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- date
- land location
- elevation

- descriptive log
 - names of those in charge (operator, driller, geologist)
 - type of equipment used
 - conductivity (drilling fluid, drilling water, formation water)
 - traces (self potential, resistivity, gamma ray, geophysical)
- 3b. **Data acquisition methods:** Registration. All registered water well drillers who have E-log equipment voluntarily submit reports.
 - 3c. **Geographic coverage:** Saskatchewan.
 - 3d. **Geographic units of measure:** Quarter section.
 - 3e. **Period of record:** 1960 to present.
 - 3f. **Update frequency:** As required.
 - 4a. **Database storage format:** Hardcopy, microfiche, original chart recorder trace, photo reduction.
 - 4b. **Database computer environment:** Not applicable.
 5. **Restrictions and conditions:** None.
 6. **Price information:** There is a charge.
 7. **Corresponding printed sources:** None.
 8. **Languages:** English.
 9. **User aids available:** Some user information and a more detailed description are available.
 10. **Keywords:** Hydrology; Prairies; Water quantity
 11. **Additional information:**
 1. The logs in this database are grouped by National Topographic Series map sheet areas. Within each map sheet area, logs are sorted under the Western Grid System subordinated by Range, Township and Section.
 2. During compilation an effort was made to screen bad logs by comparing electric responses to the descriptive logs provided. However, due to the varied sources of data included, SaskWater does not warrant the accuracy of any logs or other information provided thereon.

Surface Water Project Data

SWP-0114-E

1. **Summary description:** An inventory of project and client data on all water rights projects approved in the province. The database contains approximately 16,000 records.
- 2a. **Responsible organization:** Saskatchewan Water Corporation
- 2b. **Database contact:** Mr. Tom S. Kaminski, Registrar, Water Management Division, Saskatchewan Water Corporation, 111 Fairford Street East, Moose Jaw, Sask. S6H 7X9
Phone: (306) 694-3965 *Facsimile:* (306) 694-3944
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- proponents name
- project (name, type)
- reservoir (area, capacity)
- location (basin number, irrigable area, map number)
- date (application, authorization, completion, licence cancellation)
- supply
- 3b. **Data acquisition methods:** Registration. All projects need to acquire a Water Rights License from SaskWater.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** Quarter section.
- 3e. **Period of record:** 1895 to present.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC.
5. **Restrictions and conditions:** None.
6. **Price information:** There is a charge.

7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** Some user information and a detailed list of fields are available.
10. **Keywords:** Hydrology; Prairies; Water quantity
11. **Additional information:** None.



Saskatchewan Wetland Conservation Corporation

Saskatchewan (Waterfowl) Dedicated Lands

SWD-0222-E

1. **Summary description:** Inventory of Provincial Crown Lands dedicated to the North American Waterfowl Management plan.
- 2a. **Responsible organization:** Saskatchewan Wetland Conservation Corporation
- 2b. **Database contact:** Mr. Graham Dorn, Policy Analyst, Saskatchewan Wetland Conservation Corporation, Room 110, 2151 Scarth Street, Regina, Sask. S4P 3Z3
Phone: (306) 787-0726 *Facsimile:* (306) 787-0780
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- individual parcels of land (acres/hectares)
- 3b. **Data acquisition methods:** Not applicable.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** Legal land location, quarter section.
- 3e. **Period of record:** 1990 to present.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Habitats; Prairies; Wildlife
11. **Additional information:** None.

Saskatchewan Wetland Distribution

SWD-0384-E

1. **Summary description:** Density of small, medium and large wetlands by rural municipality.
- 2a. **Responsible organization:** Saskatchewan Wetland Conservation Corporation
- 2b. **Database contact:** Mr. Graham Dorn, Policy Analyst, Saskatchewan Wetland Conservation Corporation, Room 110, 2151 Scarth Street, Regina, Sask. S4P 3Z3
Phone: (306) 787-0726 *Facsimile:* (306) 787-0780
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- wetland density (number per km)
- wetland size (small (less than 2.0 ha), medium (2.0 to 40.3 ha), large (over 40.4 ha))

- 3b. **Data acquisition methods:** Satellite imagery. Data provided by Ducks Unlimited Canada.
- 3c. **Geographic coverage:** Agriculture zone of Saskatchewan.
- 3d. **Geographic units of measure:** Rural municipality.
- 3e. **Period of record:** 1985 to 1989.
- 3f. **Update frequency:** Not applicable.
- 4a. **Database storage format:** Hardcopy maps.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Ecology; Habitats; Prairies
11. **Additional information:** None.



SaskEnergy Incorporated

Air Emissions Database

AED-0113-E

1. **Summary description:** A database containing air emissions data collected from SaskEnergy facilities within Saskatchewan.
- 2a. **Responsible organization:** SaskEnergy Incorporated
- 2b. **Database contact:** Mr. Bernie Ryma, Environmental Services, Environment Section, SaskEnergy Incorporated, 2221 Cornwall Street, P.O. Box 3839, Regina, Sask. S4P 3R8
Phone: (306) 777-9368 *Facsimile:* (306) 525-0341
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- chemical concentrations (CO, O₂, NO_x, SO₂)
- 3b. **Data acquisition methods:** Combustion gas analyser. American gauge.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** Legal land location.
- 3e. **Period of record:** 1992 to present.
- 3f. **Update frequency:** No set period.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Contaminants; Emissions; Prairies
11. **Additional information:** CO₂ is calculated based on fuel type and oxygen readings.



SaskPower

PCB Storage Facility Database

PCB-0106-E

1. **Summary description:** An inventory, by item, of PCB and PCB contaminated material produced by SaskPower. The database's purposes are inventory control and regulatory compliance.
- 2a. **Responsible organization:** SaskPower
- 2b. **Database contact:** Mr. Barry Dehm, Environmental Surveillance, Environmental Programs, SaskPower, 2025 Victoria Avenue, Regina, Sask. S4P 0S1
Phone: (306) 566-2880 *Facsimile:* (306) 566-3428
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - original owner/company (alphanumeric identification)
 - container (type, contents, details)
 - manufacturer information
 - PCB concentration
 - location of facility
 - date received
 - consigner/consignee data
 - volume/weight
- 3b. **Data acquisition methods:** Monitoring. Internal reports.
- 3c. **Geographic coverage:** Saskatchewan.
- 3d. **Geographic units of measure:** Address or legal land location.
- 3e. **Period of record:** 1989 to present.
- 3f. **Update frequency:** Daily.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Contaminants; Prairies; Waste
11. **Additional information:** None.

ALBERTA



Alberta Agriculture, Food and Rural Development

Aerial Photo Mapping Catalogue

APM-0165-E

1. **Summary description:** Database holding aerial photographs used for survey control and mapping purposes.
- 2a. **Responsible organization:** Alberta Agriculture, Food and Rural Development
- 2b. **Database contact:** Ms. Echo McCarley, Systems Analyst, Land Evaluation and Reclamation Branch, Alberta Agriculture, Food and Rural Development, Agriculture Centre, Lethbridge, Alta. T1J 4C7
Phone: (403) 382-4424 *Facsimile:* (403) 381-5765
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- aerial photographs (location, flight line, elevation)
- 3b. **Data acquisition methods:** Aerial photographs acquired and interpreted by Departmental staff.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Legal land description.
- 3e. **Period of record:** 1974 to 1991.
- 3f. **Update frequency:** Unknown.
- 4a. **Database storage format:** Hardcopy, photographs, diapositives, magnetic tape.
- 4b. **Database computer environment:** PC, OS/2, RBASE.
5. **Restrictions and conditions:** System currently under review.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** User's manual.
10. **Keywords:** Imagery; Prairies; Remote Sensing
11. **Additional information:** The latest photographs are for irrigation districts acquired in 1991.

Alberta Agricultural Land Base Monitoring Study

ALB-0035-E

1. **Summary description:** Data on quantity and quality of changes (additions and deletions) to the agricultural land base.
- 2a. **Responsible organization:** Alberta Agriculture, Food and Rural Development
- 2b. **Database contact:** Mr. Mel Miller, Head, Resource Planning Branch, Policy Secretariat, Alberta Agriculture, Food and Rural Development, 7000 - 113 Street, Edmonton, Alta. T6H 5T6
Phone: (403) 427-5359 *Facsimile:* (403) 422-0474
- 2c. **Access mechanisms:** Through the data centre contact.
- 3a. **Parameters measured:**
- area (acreage)
- Canada Land Inventory class (CLI)
- land use codes (before and after change)

- land title registrations
 - municipality, regional planning agency
- 3b. **Data acquisition methods:** Field survey. Information is collected from regional planning commissions, municipal subdivision approving authorities, and government departments and boards.
 - 3c. **Geographic coverage:** Settled area, Alberta.
 - 3d. **Geographic units of measure:** Municipalities (acres).
 - 3e. **Period of record:** 1976 to 1990.
 - 3f. **Update frequency:** Every five years.
 - 4a. **Database storage format:** Hard disk, diskette.
 - 4b. **Database computer environment:** Mainframe, VMS, TSO, SAS. PC, OS/2, SAS.
 5. **Restrictions and conditions:** None.
 6. **Price information:** Fees for CPU time and data storage (see 11).
 7. **Corresponding printed sources:** Five-year updates are compiled in report format.
 8. **Languages:** English.
 9. **User aids available:** Field codes.
 10. **Keywords:** Agriculture; Land use; Prairies
 11. **Additional information:** The departmental dataset identification code is AGO.CARLASAS.*. Data processing fees are set by Alberta Public Works, Supply and Services.

Alberta Weed Survey

AWS-0077-E

1. **Summary description:** Weed species, densities and distribution in Alberta focusing on wheat, oats, barley and canola crops.
- 2a. **Responsible organization:** Alberta Agriculture, Food and Rural Development
- 2b. **Database contact:** Ms. Denise Maurice, Supervisor, Weed Research and Development, Soil and Crop Management Branch, Alberta Agriculture, Food and Rural Development, 6909 - 116 Street, Edmonton, Alta. T6H 4P2
Phone: (403) 427-7098 *Facsimile:* (403) 422-9745
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- crop
- field
- weed (species, density)
- 3b. **Data acquisition methods:** Field survey carried out one month after spring by departmental staff in each of 6 regions.
- 3c. **Geographic coverage:** Cereal and oil seed crop growing area of Alberta.
- 3d. **Geographic units of measure:** Fields sampled referenced by quarter section.
- 3e. **Period of record:** 1987 to 1989.
- 3f. **Update frequency:** Update planned in 7 to 10 years.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, PARADOX.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Final report in preparation.
8. **Languages:** English.
9. **User aids available:** Final report provides details on survey methods.
10. **Keywords:** Agriculture; Plants; Prairies
11. **Additional information:** None.

ASANL Soil Test Database

ASA-0151-E

1. **Summary description:** Database is used to prepare soil test recommendations, monitor soil/crop conditions and for statistical/geographical summaries.
- 2a. **Responsible organization:** Alberta Agriculture, Food and Rural Development
- 2b. **Database contact:** Mr. Len Kryzanowski, Crop Nutrition Agonomist, Soil and Crop Management Branch, Alberta Agriculture, Food and Rural Development, 905, 6909 - 115 Street, Edmonton, Alta. T6H 4P2
Phone: (403) 427-6361 *Facsimile:* (403) 427-1439
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - client (legal location, past cropping history, irrigation, fertilizer application, manure application, forage plowdown)
 - soil test data (nutrient, chemical and physical analyses)
- 3b. **Data acquisition methods:** Field sample data. Data collected by Departmental staff and producers.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Legal land location, district, county.
- 3e. **Period of record:** 1961 to present.
- 3f. **Update frequency:** Daily.
- 4a. **Database storage format:** Hardcopy, diskette, tape.
- 4b. **Database computer environment:** Mainframe, TSO, SAS, PC, SAS/PC.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Various research reports, scientific papers/publications and statistical/geographical summaries.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Agriculture; Prairies; Soils
11. **Additional information:** Information and data for recent years are limited due to reduced sample submission from producers.

CAESA Systems Evaluation

CAE-0081-E

1. **Summary description:** Agronomic and economic data from various conservation farming systems across the province.
- 2a. **Responsible organization:** Alberta Agriculture, Food and Rural Development
- 2b. **Database contact:** Mr. Terry Appleby, Production Economics Branch, Alberta Agriculture, Food and Rural Development, #303, 7000 - 113 Street, Edmonton, Alta. T6H 5T6
Phone: (403) 427-4005 *Facsimile:* (403) 427-5220
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - field operations (tillage, spraying)
 - changes in practices (in past, next year)
 - moisture management
 - crop residue
 - tillage type
 - forage system
 - crop rotation
 - machinery
 - difficulties
 - goals

- 3b. **Data acquisition methods:** Regional Soil Conservation Coordinators collate questionnaires completed by volunteer producer cooperators.
- 3c. **Geographic coverage:** 50 producers, 61 to 65 fields varying from 21 to 105 ha.
- 3d. **Geographic units of measure:** Fields references by the Alberta Land System.
- 3e. **Period of record:** 1988 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, PARADOX.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Reports related to time saving, cost comparisons among tillage methods, and machinery and cost of production have been prepared. An annual report is planned.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Agriculture; Conservation; Prairies
11. **Additional information:** None.

Farmland Development and Reclamation Program

FDR-0391-E

1. **Summary description:** This system is a project management tracking system used to store data on farmland development and reclamation projects in Alberta.
- 2a. **Responsible organization:** Alberta Agriculture, Food and Rural Development
- 2b. **Database contact:** Mr. David Nielson, Section Head, Farm Water Management, Conservation and Development Branch, Alberta Agriculture, Food and Rural Development, 7000 - 113 Street, Edmonton, Alta. T6H 5T6
Phone: (403) 422-6530 *Facsimile:* (403) 422-0474
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - local authority (number, name)
 - project (type, number, name, location)
 - date received
 - Alberta Environment (referral, response)
 - inspection date
 - preliminary decision to ASB
 - survey and investigation
 - design report
 - status comments
- 3b. **Data acquisition methods:** Field investigations, reports. Data from internal and external sources integrated by departmental staff.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Legal land description.
- 3e. **Period of record:** 1981 to present.
- 3f. **Update frequency:** On a project basis.
- 4a. **Database storage format:** Hardcopy, hard disk, diskette.
- 4b. **Database computer environment:** PC, PARADOX.
5. **Restrictions and conditions:** Written requests for access, some restrictions may apply.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** Summary sheet.
10. **Keywords:** Agriculture; Prairies; Water quantity

- 11. Additional information:** The program for which this database was designed is no longer active. The database provides historical data on water management problems for which farmers applied for cost assistance.

Irrigation/Drainage Systems Inventory

IDS-0162-E

- 1. Summary description:** Database holding irrigation/drainage systems data for Alberta. Used by Ministry for planning purposes.
- 2a. Responsible organization:** Alberta Agriculture, Food and Rural Development
- 2b. Database contact:** Mr. Pat McIlhargey, Irrigation Branch, Alberta Agriculture, Food and Rural Development, Agriculture Centre, Lethbridge, Alta. T1J 4C7
Phone: (403) 381-5855 *Facsimile:* (403) 381-5765
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - land location (Alberta Municipal Affairs Administrative Area, Alberta Agriculture Administrative Area)
 - Irrigation Branch Office
 - area (hectares)
 - water sources
 - system/method
 - energy type
 - date of last improvement
 - description
- 3b. Data acquisition methods:** Reports. Data integrated by Ministry staff from several internal and external sources.
- 3c. Geographic coverage:** Alberta.
- 3d. Geographic units of measure:** Watershed.
- 3e. Period of record:** 1991 to present.
- 3f. Update frequency:** As information becomes available.
- 4a. Database storage format:** Hardcopy, hard disk.
- 4b. Database computer environment:** PC, OS/2, BASIC.
- 5. Restrictions and conditions:** None.
- 6. Price information:** Not applicable.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Agriculture; Prairies; Water
- 11. Additional information:** Data available by written request (hardcopy and digital).

Land Irrigability Classification Index

LIC-0166-E

- 1. Summary description:** Database contains land irrigability classification data used for land use planning.
- 2a. Responsible organization:** Alberta Agriculture, Food and Rural Development
- 2b. Database contact:** Mr. Frank Hecker, Head, Land Classification Unit, Land Evaluation and Reclamation Branch, Alberta Agriculture, Food and Rural Development, Agriculture Centre, Lethbridge, Alta. T1J 4C7
Phone: (403) 382-4424 *Facsimile:* (403) 381-5765
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - land location
 - start date
 - project (client, completion date)
 - irrigable acres, non-irrigable acres
 - irrigability class

- 3b. Data acquisition methods:** Reports. Data integrated by Departmental staff from several internal and external sources.
- 3c. Geographic coverage:** Alberta.
- 3d. Geographic units of measure:** Areas investigated outlined on maps.
- 3e. Period of record:** 1980 to present.
- 3f. Update frequency:** As new information becomes available.
- 4a. Database storage format:** Hardcopy maps.
- 4b. Database computer environment:** Not applicable.
- 5. Restrictions and conditions:** System currently under review.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** Land classification for irrigated reports.
- 8. Languages:** English.
- 9. User aids available:** User's manual.
- 10. Keywords:** Geography; Irrigation; Prairies
- 11. Additional information:** A second database, Level II Land Classification for Irrigation, contains more detailed information (by quarter section) that is used for issuing water rights and licenses. Level II refers to sampling intensity on a scale from I to V. Reports are also prepared.

On-Farm Irrigation Information System

OFI-0164-E

- 1. Summary description:** Database holding on-farm irrigation data for farms in Alberta. Used by Department for planning purposes.
- 2a. Responsible organization:** Alberta Agriculture, Food and Rural Development
- 2b. Database contact:** Mr. Pat McIlhargey, Information Systems Analyst, Irrigation Branch, Alberta Agriculture, Food and Rural Development, Agriculture Centre, Lethbridge, Alta. T1J 4C7
Phone: (403) 381-5855 *Facsimile:* (403) 381-5765
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - irrigated area
 - diversion
 - conveyance
- 3b. Data acquisition methods:** Reports. Data integrated by Departmental staff from several internal and external sources.
- 3c. Geographic coverage:** Alberta.
- 3d. Geographic units of measure:** UTM coordinates.
- 3e. Period of record:** 1991 to present.
- 3f. Update frequency:** Annually.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, OS/2, AUTOCAD, GEOSQL, RBASE.
- 5. Restrictions and conditions:** Written request for data.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** Statistical reports are prepared for database components such as energy type, water source, irrigation systems.
- 8. Languages:** English.
- 9. User aids available:** User's manual will be developed.
- 10. Keywords:** Agriculture; Irrigation; Prairies
- 11. Additional information:**
 1. This database is currently under development.
 2. This database will supersede the Irrigation/Drainage Systems Inventory database.

Organic Soils Research Database

OSR-0160-E

1. **Summary description:** Database contains organic soils research data for Alberta.
 - 2a. **Responsible organization:** Alberta Agriculture, Food and Rural Development
 - 2b. **Database contact:** Mr. Len Kryzanowski, Crop Nutrition Agonomist, Soil and Crop Management Branch, Alberta Agriculture, Food and Rural Development, 905, 6909 - 115 Street, Edmonton, Alta. T6H 4P2
Phone: (403) 427-6361 *Facsimile:* (403) 427-1439
 - 2c. **Access mechanisms:** Through the responsible organization.
 - 3a. **Parameters measured:**
 - soil (treatment description, classification, analyses)
 - site data
 - crop response data
 - 3b. **Data acquisition methods:** Field sample data. Data collected by Departmental staff.
 - 3c. **Geographic coverage:** Alberta.
 - 3d. **Geographic units of measure:** Legal land location.
 - 3e. **Period of record:** 1981 to present.
 - 3f. **Update frequency:** Annually.
 - 4a. **Database storage format:** Hardcopy, diskette, tape.
 - 4b. **Database computer environment:** Mainframe, SAS.
 5. **Restrictions and conditions:** Restricted.
 6. **Price information:** No charge.
 7. **Corresponding printed sources:** Various research reports and scientific papers/publications.
 8. **Languages:** English.
 9. **User aids available:** None.
 10. **Keywords:** Agriculture; Prairies; Soils
 11. **Additional information:** None.
-

PLOTS - Conservation Tillage Plot Data

PLO-0079-E

1. **Summary description:** Database includes 9 linked databases that provide information on farm location, seeding, soils, fertilizer/fertility, tillage (defining differences in conservation and minimum tillage), spray application, weather and harvest. The database is used as an extension tool for farmers, D.A.'s and Agriculture Fieldmen to show, over the longer term, that conservation tillage pays.
- 2a. **Responsible organization:** Alberta Agriculture, Food and Rural Development
- 2b. **Database contact:** Mr. John Zylstra, Regional Soil Conservation Coordinator, Conservation and Development Branch, Alberta Agriculture, Food and Rural Development, Provincial Building, Box 7777, Fairview, Alta. T0H 0L0
Phone: (403) 835-2291
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - farm location
 - seeding
 - fertilizer
 - fertility
 - tillage type
 - weather
 - harvest
- 3b. **Data acquisition methods:** Field survey. Data are generated by producer groups and Agricultural Service Boards from conservation tillage plot sites in the Peace Region.

- 3c. **Geographic coverage:** Peace River region, Alberta.
 - 3d. **Geographic units of measure:** Legal land description.
 - 3e. **Period of record:** Not applicable.
 - 3f. **Update frequency:** Annually.
 - 4a. **Database storage format:** Hardcopy, diskette.
 - 4b. **Database computer environment:** PC, PARADOX 3.5.
 5. **Restrictions and conditions:** None.
 6. **Price information:** No charge.
 7. **Corresponding printed sources:** None.
 8. **Languages:** English.
 9. **User aids available:** None.
 10. **Keywords:** Agriculture; Prairies; Soils
 11. **Additional information:** None.
-

Soil Fertility Research Database

SFR-0159-E

1. **Summary description:** Small plot research data that include treatment information, soil analysis, site information and crop response measurement. Data used for statistical analyses for research projects and modelling crop performance.
 - 2a. **Responsible organization:** Alberta Agriculture, Food and Rural Development
 - 2b. **Database contact:** Mr. Len Kryzanowski, Crop Nutrition Agonomist, Soil and Crop Management Branch, Alberta Agriculture, Food and Rural Development, 905, 6909 - 115 Street, Edmonton, Alta. T6H 4P2
Phone: (403) 427-6361 *Facsimile:* (403) 427-1439
 - 2c. **Access mechanisms:** Through the responsible organization.
 - 3a. **Parameters measured:**
 - soil analysis (nutrient levels, soil chemistry, physical properties)
 - site information (legal location, climate, soil type)
 - crop response (yield, quality - protein, nutrient uptake)
 - treatment (fertilizers, rates, sources, placement, time)
 - 3b. **Data acquisition methods:** Field sample data. Departmental research.
 - 3c. **Geographic coverage:** Alberta.
 - 3d. **Geographic units of measure:** Legal land location, soil zone.
 - 3e. **Period of record:** 1965 to present.
 - 3f. **Update frequency:** Annually.
 - 4a. **Database storage format:** Hardcopy, magnetic tape, diskette.
 - 4b. **Database computer environment:** Mainframe, TSO, SAS, PC, SAS/PC.
 5. **Restrictions and conditions:** None.
 6. **Price information:** No charge.
 7. **Corresponding printed sources:** Various research reports, scientific papers/publications.
 8. **Languages:** English.
 9. **User aids available:** None.
 10. **Keywords:** Agriculture; Prairies; Soils
 11. **Additional information:** None.
-

Water Quality Data

WQD-0082-E

1. **Summary description:** Water quality data from wells and dugouts.
- 2a. **Responsible organization:** Alberta Agriculture, Food and Rural Development

- 2b. Database contact:** Mr. Dave Scott, Systems Engineer, Engineering Services Branch, Alberta Agriculture, Food and Rural Development, 7000 - 113 Street, Edmonton, Alta. T6H 5T6
Phone: (403) 427-2181 Facsimile: (403) 438-3362
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- owner (name, address, legal location)
 - substance concentrations (Na, Ka, Ca, Mg, Fe, sulphate, Cl⁻, N, Fl, total dissolved organic solids)
 - conductivity
 - pH
 - hardness
 - alkalinity
 - water treatment equipment
- 3b. Data acquisition methods:** Water sample analysis. Water samples submitted to the departmental water testing service by producers.
- 3c. Geographic coverage:** Alberta.
- 3d. Geographic units of measure:** Wells referenced by quarter section.
- 3e. Period of record:** 1982 to present.
- 3f. Update frequency:** Every 2 to 3 months.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, PARADOX.
- 5. Restrictions and conditions:** Names and addresses are confidential.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Agriculture; Prairies; Water quality
- 11. Additional information:** None.



Alberta Hail and Crop Insurance Corporation

Alberta Crop Insurance Experience Data

ACI-0150-E

- 1. Summary description:** The database captures insurance experience and is used internally for establishing rates and coverage.
- 2a. Responsible organization:** Alberta Hail and Crop Insurance Corporation
- 2b. Database contact:** Mr. Rod Rains, Director, Program Administration, Alberta Hail and Crop Insurance Corporation, 5718 56th Avenue, Bag Service #16, Lacombe, Alta. T0C 1S0
Phone: (403) 782-8200 Facsimile: (403) 782-3896
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- commodity
 - risk
 - acres insured
 - premiums
 - liability
 - losses
- 3b. Data acquisition methods:** Reports. Data input internally.
- 3c. Geographic coverage:** Alberta.

- 3d. Geographic units of measure:** Legal land description, risk area, municipality.
- 3e. Period of record:** 1972 to present.
- 3f. Update frequency:** Some data updated weekly and some annually.
- 4a. Database storage format:** Hardcopy, diskette, tape.
- 4b. Database computer environment:** IBM mainframe, SAS.
- 5. Restrictions and conditions:** None.
- 6. Price information:** Cost recovery charges apply.
- 7. Corresponding printed sources:** Annual statistical reports.
- 8. Languages:** English.
- 9. User aids available:** Internal documents.
- 10. Keywords:** Agriculture; Natural disasters; Prairies
- 11. Additional information:** None.

Alberta Crop Insurance Yield Data

ACI-0152-E

- 1. Summary description:** The database captures crop yield data for Alberta for the purposes of establishing insurance rates and coverage.
- 2a. Responsible organization:** Alberta Hail and Crop Insurance Corporation
- 2b. Database contact:** Mr. Rod Rains, Director, Program Administration, Alberta Hail and Crop Insurance Corporation, 5718 56th Avenue, Bag Service #16, Lacombe, Alta. T0C 1S0
Phone: (403) 782-8200 Facsimile: (403) 782-3896
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- legal land description
 - commodity type
 - estimated yield
 - fertilizer use
- 3b. Data acquisition methods:** Questionnaires and field measurements. Producer completed questionnaires until 1991. That year (1991) and subsequent years, departmental staff measured yields.
- 3c. Geographic coverage:** 24,000 farmers in Alberta.
- 3d. Geographic units of measure:** Legal land description and municipality.
- 3e. Period of record:** 1972 to present.
- 3f. Update frequency:** Some data updated weekly and some annually.
- 4a. Database storage format:** Magnetic tape.
- 4b. Database computer environment:** IBM mainframe, SAS.
- 5. Restrictions and conditions:** Written request, only summary data provided.
- 6. Price information:** Cost recovery charges apply.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** Document describing database.
- 10. Keywords:** Agriculture; Natural disasters; Prairies
- 11. Additional information:** User must supply tape onto which database is copied.



Alberta Health

Hospital Medical Records Institute

HMR-0070-E

1. **Summary description:** Clinical abstracts of all in-patient hospitalizations and day surgery episodes in Alberta.
- 2a. **Responsible organization:** Alberta Health
- 2b. **Database contact:** Mr. James Leung, Project Leader team 3, Information Technology Division, Alberta Health, 6th Floor, 10025 Jasper Avenue, Edmonton, Alta. T5J 2P4
Phone: (403) 422-9449 Facsimile: (403) 422-3654
- 2c. **Access mechanisms:** Through HMRI or Alberta Health.
- 3a. **Parameters measured:**
 - hospital number
 - patient (health number, chart number)
 - demographic data (age, sex, geocode)
 - diagnosis (ICD9-CM)
 - surgical procedures (ICD9-CM)
 - service data
- 3b. **Data acquisition methods:** Patient hospital charts. Clinical post-discharge data are abstracted by the Health Records Department and submitted electronically or on paper.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Alberta residence code and hospital district.
- 3e. **Period of record:** 1979 to present. January - March 1979 data are not used.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Magnetic tape, diskette.
- 4b. **Database computer environment:** AMDAHL mainframe, VMS.
5. **Restrictions and conditions:** Individual records are confidential.
6. **Price information:** Cost of retrieval charged to user.
7. **Corresponding printed sources:** Statistical aggregations in hard copy form.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Health; Human Health; Prairies
11. **Additional information:** There are multiple versions of internal dataset identifiers with differing formats.



Alberta Public Works, Supply and Services

Systems Inventory - Alberta Government

SIA-0168-E

1. **Summary description:** An inventory of Information Technology systems and databases operated by provincial government departments, boards and agencies in Alberta.

- 2a. **Responsible organization:** Alberta Public Works, Supply and Services
- 2b. **Database contact:** Mr. Doug Sigler, Director, Strategic Resources, Information, Technology and Supply, Alberta Public Works, Supply and Services, 3rd Floor, 6950 - 113 Street, Edmonton, Alta. T6H 5V7
Phone: (403) 427-7917 Facsimile: (403) 427-2308
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - system (title, subject, department, purpose, contact, commercialization status)
- 3b. **Data acquisition methods:** Reports. Descriptions supplied by Alberta government departments, boards and agencies.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1978 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, hard disk, diskette.
- 4b. **Database computer environment:** PC, WORDPERFECT 5.1.
5. **Restrictions and conditions:** Some restrictions may apply.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Annual report available through the Alberta Public Affairs Bureau.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Education; Government; Prairies
11. **Additional information:**
 1. Annual report distributed to all departments, boards and agencies and to other governments (provincial and federal) to encourage sharing and exchange of information and systems.
 2. Approximately 1,200 systems are included in the inventory.



Alberta Registries

Alberta Motor Vehicles

AMV-0288-E

1. **Summary description:** Registry of drivers and registered owners of vehicles with vehicle description included.
- 2a. **Responsible organization:** Alberta Registries
- 2b. **Database contact:** Mr. Robert Dunster, Registrar, Motor Vehicles, Alberta Registries, 9th Floor, 10365 - 97 Street, Edmonton, Alta. T5J 3W7
Phone: (403) 427-8250 Facsimile: (403) 422-5018
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - driver's personal data
 - driving record
 - vehicle description information for registration purposes
- 3b. **Data acquisition methods:** Vehicle and driver license renewal/purchases/sales/address changes. Driver and vehicle data required under the Motor Vehicle Administration Act. On-line production system, 200 locations input data daily.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Data referenced by postal code.
- 3e. **Period of record:** 1983 to present.

- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Diskette, mainframe storage.
- 4b. **Database computer environment:** Mainframe, PC.
5. **Restrictions and conditions:** Data related to individuals is restricted.
6. **Price information:** No charge to government agencies for data in existing format.
7. **Corresponding printed sources:** Public annual reports containing summary.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Enforcement; Prairies; Vehicles
11. **Additional information:**
 1. This database is restricted to government and enforcement agencies. Data elements are related to clients (owners and drivers). None of the client related information is made available. Vehicle data available only on a case-by-case basis.
 2. Only aggregate data are provided by postal code.

Vital Statistics Information Terminal System

VIS-0037-E

1. **Summary description:** Birth, marriage, death and stillbirth events for the province including all amended data, adoptions and legal changes of name.
- 2a. **Responsible organization:** Alberta Registries
- 2b. **Database contact:** Ms. Connie J. Schultz, System/Project Development Consultant, Vital Statistics, Alberta Registries, 10130 - 112 Street, Edmonton, Alta. T5K 2P2
Phone: (403) 422-3784 Facsimile: (403) 422-9118
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - births (pregnancy duration, birth date, time, location, delivery type, stillbirth cause, infant's sex, birth defects, weight, mother's and father's name, birthplace)
 - deaths (death date, time, location, cause, deceased's name; sex, birth date, marital status, occupation, address, mother's and father's name, birthplace, spouse's name, address)
 - marriages (date, location, bride's and groom's name, address, marital status, religion, birth date and place, parents' names, birth place)
- 3b. **Data acquisition methods:** Paper registrations/documents. Records are obtained from institutions which are required by law to file registration documents.
- 3c. **Geographic coverage:** Urban and rural codes for all cities, towns, villages and hamlets.
- 3d. **Geographic units of measure:** Events referenced by census division and local codes.
- 3e. **Period of record:** 1925 to present. Births and deaths from 1925 to present, marriages from 1945 to present.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Hardcopy, microfiche, diskette, tape cartridge, hard disk.
- 4b. **Database computer environment:** IBM mainframe, VMS, MDS S/21. PC.
5. **Restrictions and conditions:** Based on the Vital Statistics Act.
6. **Price information:** Negotiable.
7. **Corresponding printed sources:** Data element dictionary.
8. **Languages:** English.
9. **User aids available:** Operational manual.
10. **Keywords:** Health; Human Health; Prairies
11. **Additional information:** None.



Alberta Research Council

Alberta Geological Survey Coal Database

AGS-0087-E

1. **Summary description:** Information regarding the location, geological setting, and coal quality analyses of coal deposits in Alberta.
- 2a. **Responsible organization:** Alberta Research Council
- 2b. **Database contact:** Mr. Barry J. Fildes, Computing Technologist, Alberta Geological Survey, Alberta Research Council, Box 8330, Edmonton, Alta. T6H 5X2
Phone: (403) 438-7676 Facsimile: (403) 438-3364
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - coal (seam/deposit location, lithology)
 - geological environment/formation
 - sampling methodology (geochemical analyses, coal quality analyses)
 - drill hole data/formation picks
 - mine information
- 3b. **Data acquisition methods:** Field surveys. Samples gathered from mines, trenches, test pits and excavations; drill core sampling and logging; laboratory analyses.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1913 to present.
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Hardcopy, diskette, 9-track tape, 8mm exabyte tape and 4mm DAT tape for VMS computers.
- 4b. **Database computer environment:** DEC VAX, INGRES.
5. **Restrictions and conditions:** Some data are restricted.
6. **Price information:** Negotiable.
7. **Corresponding printed sources:** Several reports have been prepared including: Rottenfusser et al., *Regional Evaluation of the Coal Bed Methane Potential in the Plains and Foothills of Alberta, Stratigraphy and Rank Study*, Alberta Research Council. Richardson et al., *Regional Coal Mapping Mapsheets*, 1990, Alberta Research Council. 1990 to present - 15 maps produced to date.
8. **Languages:** English.
9. **User aids available:** Data Dictionary Report. Entity Relationship Diagram.
10. **Keywords:** Coal; Geology; Prairies
11. **Additional information:** None.

Alberta Geological Survey Well Database

AGS-0139-E

1. **Summary description:** Implemented portions of ERCB General Well and Core Analysis File; SB-SK and BC Well Data; Drill Stem Test and Formation Water from Alberta Geological Survey.
- 2a. **Responsible organization:** Alberta Research Council
- 2b. **Database contact:** Mr. M. Brulotte, Database Administrator, Alberta Geological Survey, Alberta Research Council, P.O. Box 8330, Edmonton, Alta. T6H 5X2
Phone: (403) 438-7606 Facsimile: (403) 438-3364

- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- geological picks
 - drill stem test
 - formation water chemistries
 - log run
 - cored intervals
 - core analysis
 - bottom hole temperature
- 3b. Data acquisition methods:** Field surveys, reports. Data provided by various drilling companies.
- 3c. Geographic coverage:** Alberta, British Columbia, Saskatchewan and Northwest Territories.
- 3d. Geographic units of measure:** Latitude and longitude.
- 3e. Period of record:** 1980 to present.
- 3f. Update frequency:** Annually.
- 4a. Database storage format:** Hard disk.
- 4b. Database computer environment:** Mainframe VMS, INGRES.
- 5. Restrictions and conditions:** Determined by source agency.
- 6. Price information:** Varies with source agency.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** Data element description, database entity relationship diagram.
- 10. Keywords:** Exploration; Geology; Prairies
- 11. Additional information:** None.

Alberta Mineral Deposits and Occurrences Database

AMD-0088-E

- 1. Summary description:** Information regarding mineral deposits and occurrences in the province of Alberta.
- 2a. Responsible organization:** Alberta Research Council
- 2b. Database contact:** Ms. Monica Price, Geological Technologist, Alberta Geological Survey, Alberta Research Council, Box 8330, Edmonton, Alta. T6H 5X2
Phone: (403) 438-7676 Facsimile: (403) 438-3364
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- commodity (type, location)
 - geological setting
 - description of deposit
 - laboratory analyses of samples
 - recoverability of deposit
 - accessibility to site
 - economic use or potential
 - owner/operator
 - development/production work
 - references
- 3b. Data acquisition methods:** Literature search, field surveys. Data input by departmental staff.
- 3c. Geographic coverage:** Alberta.
- 3d. Geographic units of measure:** DLS or UTM coordinates.
- 3e. Period of record:** Not applicable.
- 3f. Update frequency:** Continually.
- 4a. Database storage format:** Diskette.
- 4b. Database computer environment:** PC, TOOLBOOK for windows, Macintosh.
- 5. Restrictions and conditions:** None.
- 6. Price information:** Manual and diskettes \$25.00.
- 7. Corresponding printed sources:** None.

- 8. Languages:** English.
- 9. User aids available:** Instruction manual.
- 10. Keywords:** Geology; Minerals; Prairies
- 11. Additional information:** This data is currently being transferred to a Mineral Information System database using INGRES DBMS on a DEC VAX cluster. It is uncertain whether this PC application will be updated in the future.

Canadian Institute of Formation Evaluation Database (Geology)

CIF-0142-E

- 1. Summary description:** Implemented portion of DIGITECH DST 80 file. Permeabilities are calculated from the Drill Stem test records.
- 2a. Responsible organization:** Alberta Research Council
- 2b. Database contact:** Mr. M. Brulotte, Database Administrator, Alberta Geological Survey, Alberta Research Council, P.O. Box 8330, Edmonton, Alta. T6H 5X2
Phone: (403) 438-7606 Facsimile: (403) 438-3364
- 2c. Access mechanisms:** Through DIGITECH.
- 3a. Parameters measured:**
- drill stem test
 - permeability
- 3b. Data acquisition methods:** Reports, surveys. Data provided by DIGITECH Information Services.
- 3c. Geographic coverage:** Alberta, British Columbia, Saskatchewan, Northwest Territories.
- 3d. Geographic units of measure:** Latitude and longitude.
- 3e. Period of record:** 1986 to present.
- 3f. Update frequency:** Updated once in 1993.
- 4a. Database storage format:** Hard disk.
- 4b. Database computer environment:** VAX, VMS, INGRES.
- 5. Restrictions and conditions:** Conditions of sale by DIGITECH.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Exploration; Geology; Prairies
- 11. Additional information:** Initially the file was handled by the Canadian Institute of Formation Evaluation, but has been taken over by DIGITECH.

Mineral Information System

MIS-0141-E

- 1. Summary description:** A geographical information system (GIS) created for access to all Mineral Development Agreement (MDA) study areas and associated data.
- 2a. Responsible organization:** Alberta Research Council
- 2b. Database contact:** Mr. Dennis K. Chao, Research Officer, Resource Technologies, Alberta Research Council, P.O. Box 8330, Edmonton, Alta. T6H 5X2
Phone: (403) 438-7692 Facsimile: (403) 438-3364
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- industrial minerals (30-40)
 - bedrock geology
 - geotechnical anomalies
 - metallagenic minerals (Au, Zn, Cu, Ni, Ur, At)
- 3b. Data acquisition methods:** Data received from each MDA project in digital or report form.

- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** UTM coordinates.
- 3e. **Period of record:** 1992 to present.
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Hardcopy, hard disk, exabyte tape, 8-track tape, diskette.
- 4b. **Database computer environment:** VMS system, INGRES, ARC/INFO GIS.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Interim reports, final report upon database completion.
8. **Languages:** English.
9. **User aids available:** Manual in preparation.
10. **Keywords:** Geology; Minerals; Prairies; Geographic Information System
11. **Additional information:** Database will be completed in 1995.

Regional Coal Mapping

RCM-0138-E

1. **Summary description:** Identifying coal development potential for each study area.
- 2a. **Responsible organization:** Alberta Research Council
- 2b. **Database contact:** Mr. Dennis K. Chao, Research Officer, Resource Technologies, Alberta Research Council, P.O. Box 8330, Edmonton, Alta. T6H 5X2
Phone: (403) 438-7642 *Facsimile:* (403) 438-3364
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - coal (bearing geology, drill hole locations, field and mine locations seams, outcrops and adits)
 - transportation, hydrogeology and parks
 - integrated resource plan outlines
 - coal lease outlines
 - Alberta Wilderness Areas
- 3b. **Data acquisition methods:** Field surveys, reports, maps. Data manually entered by Departmental staff and digital drill hole data downloaded. Maps manually digitized.
- 3c. **Geographic coverage:** 15 plots at 1:50 000 scale in Alberta.
- 3d. **Geographic units of measure:** UTM coordinates.
- 3e. **Period of record:** 1989 to present.
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** ARC/INFO coverages on hard disk/diskette.
- 4b. **Database computer environment:** Mainframe, VMS, ARC/INFO GIS. PC, PC ARC/INFO GIS.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Open file reports.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Coal; Mining; Prairies; Geographic Information System
11. **Additional information:** Most geologic and base maps are hand-digitized.

Soil Inventory Database for Management and Planning

SID-0075-E

1. **Summary description:** Data on soil series, topographic phase, agroclimatic zone and land capability for agriculture for each quarter section in the agricultural area of Alberta.
- 2a. **Responsible organization:** Alberta Research Council
- 2b. **Database contact:** Ms. Brenda Sawyer, Environmental Research and Engineering, Alberta Research Council, P.O. Box 8330, Station F, Edmonton, Alta. T6H 5X2
Phone: (403) 438-7555 *Facsimile:* (403) 430-0839
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - quarter section
 - legal location
 - three soil series (with relative proportions)
 - topographic phases (with relative proportions)
 - agroclimatic zone
 - soil survey map sheet
 - municipality
 - CLI capability for agriculture
 - soil summary properties
- 3b. **Data acquisition methods:** Field surveys, aerial photograph interpretation. Soil surveys - Alberta Research Council, Agriculture Canada, University of Alberta; CLI Capability for Agriculture - Environment Canada; Alberta Energy and Natural Resources, Municipalities of Alberta; Canada Land Inventory Interpretation Information for Agriculture - Alberta Municipal Affairs LANDUP system.
- 3c. **Geographic coverage:** Agricultural area of Alberta.
- 3d. **Geographic units of measure:** Quarter sections.
- 3e. **Period of record:** 1980 to present.
- 3f. **Update frequency:** Irregular.
- 4a. **Database storage format:** Diskette, 9-track magnetic tape.
- 4b. **Database computer environment:** Mainframe, VMS, INGRES.
5. **Restrictions and conditions:** None.
6. **Price information:** \$500.00 for entire dataset; \$200.00 first county, \$50.00 additional.
7. **Corresponding printed sources:** *SIDMAP: Soil inventory Database for Management and Planning: Development, Applications and Evaluation*, 1986. Alberta Institute of Pedology No. M-86-1. U. of Alberta.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Geography; Prairies; Soils
11. **Additional information:** A new digital database (vector format) is currently being designed/produced for the agricultural portion of Alberta at a scale of 1:100 000. The SIDMAP database (raster format) and the new vector database will be accessible through the Alberta Soil Information Centre currently in the design stage.



Alberta Transportation and Utilities

Automated Land Information System

ALI-0148-E

1. **Summary description:** Provides a comprehensive inventory of the department's land parcels and supports the acquisition, management and disposal of land interests.
- 2a. **Responsible organization:** Alberta Transportation and Utilities
- 2b. **Database contact:** Mr. Peter Roche, Director, Property Services Branch, Administrative Division, Alberta Transportation and Utilities, 4999-98 Avenue, Edmonton, ALTA
Phone: (403) 427-3132 *Facsimile:* (403) 427-1066
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - file
 - land parcel legal description
 - road plan
- 3b. **Data acquisition methods:** Survey, reports. Survey acquisition and tax information entered by Departmental staff.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Legal survey.
- 3e. **Period of record:** 1993 to present.
- 3f. **Update frequency:** Daily.
- 4a. **Database storage format:** Hard disk, tape.
- 4b. **Database computer environment:** PC, OS/2, COBOL.
5. **Restrictions and conditions:** Authorization required.
6. **Price information:** Cost depends on size of request.
7. **Corresponding printed sources:** Automated Land Information System reports.
8. **Languages:** English.
9. **User aids available:** Manuals available on the design and use of the system.
10. **Keywords:** Geography; Land use; Prairies
11. **Additional information:** None.

Consolidated Traffic Information System

CTI-0040-E

1. **Summary description:** A consolidation of traffic statistics for Alberta Highways from the Turning Movement System and Traffic Counter System. This system generates many reports.
- 2a. **Responsible organization:** Alberta Transportation and Utilities
- 2b. **Database contact:** Mr. Peter Kilburn, Managing Engineer, Traffic Data Systems, Planning and Development, Alberta Transportation and Utilities, Twin Atria Building - Planning Branch, 4th Floor, 4999 - 98 Avenue, Edmonton, Alta. T6B 2X3
Phone: (403) 427-6720 *Facsimile:* (403) 422-2846
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - observed vehicles class volumes (5 vehicle classes) for intersection legs
 - average annual daily traffic (AADT)
 - average summer daily traffic (ASDT)

- 3b. **Data acquisition methods:** Turning Movement System (TMS), Traffic Counter System (TCS). Planning Branch staff.
- 3c. **Geographic coverage:** All primary and secondary highways in Alberta.
- 3d. **Geographic units of measure:** ATS and/or travel distance.
- 3e. **Period of record:** 1970 to present. From 1970 to present for the manual vehicle class, from 1979 to present for the Traffic Volume Statistics (AADT, ASDT).
- 3f. **Update frequency:** Ongoing.
- 4a. **Database storage format:** TSO flat files on mainframe.
- 4b. **Database computer environment:** IBM mainframe, custom software.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Traffic Volume History, 1987-1992; Traffic Volume Breakdown by Vehicle Class (1987-1992).
8. **Languages:** English.
9. **User aids available:** User's guide and System support guide.
10. **Keywords:** Prairies; Transportation; Vehicles
11. **Additional information:** System superseded by Traffic Information System Data converted from 1988-1992. All new data will be managed by the Traffic Information System expected to be on-line by spring of 1994.

Construction and Financial Reporting System

CFR-0055-E

1. **Summary description:** Reports current fiscal year construction project progress for 13 departmental programs.
- 2a. **Responsible organization:** Alberta Transportation and Utilities
- 2b. **Database contact:** Mr. Clarence Dewald, Assistant Director, Construction Programs Branch, Alberta Transportation and Utilities, 4999 - 98 Avenue, Edmonton, Alta. T6B 2X3
Phone: (403) 427-3110 *Facsimile:* (403) 422-2978
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - construction projects
 - jobs
 - contracts
 - expenditures
- 3b. **Data acquisition methods:** Data no longer being added to system.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Legal land location, highway control section, kilometre to kilometre points.
- 3e. **Period of record:** 1981 to 1991. System not used since 1991.
- 3f. **Update frequency:** Data no longer being added to system.
- 4a. **Database storage format:** Mainframe files.
- 4b. **Database computer environment:** IBM mainframe, DASD.
5. **Restrictions and conditions:** None.
6. **Price information:** None.
7. **Corresponding printed sources:** System produces a number of reports.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Construction; Prairies; Transportation
11. **Additional information:** The function of this system has been replaced by the Construction Program Management System (CPMS) and is no longer actively used. It is only used to access the historical data it contains. Due to the nature of the data, the need to access diminishes with time and it is expected that the system will be pulled out of service in four to five years.

Construction Program Management System

CPM-0054-E

1. **Summary description:** A department-wide system which assists in the management of construction project information.
 - 2a. **Responsible organization:** Alberta Transportation and Utilities
 - 2b. **Database contact:** Mr. Clarence Dewald, Assistant Director, Construction Programs Branch, Alberta Transportation and Utilities, 4999 - 98 Avenue, Edmonton, Alta. T6B 2X3
Phone: (403) 427-3110 *Facsimile:* (403) 422-2978
 - 2c. **Access mechanisms:** Through the responsible organization.
 - 3a. **Parameters measured:**
 - construction projects
 - jobs
 - contracts
 - expenditures
 - 3b. **Data acquisition methods:** Some data obtained from reports, other data entered on-line. Reports submitted by districts, regions and branches; moving towards on-line data entry.
 - 3c. **Geographic coverage:** Alberta.
 - 3d. **Geographic units of measure:** Highway control section and start/end points, or legal land location.
 - 3e. **Period of record:** 1990 to present.
 - 3f. **Update frequency:** Daily.
 - 4a. **Database storage format:** Mainframe files.
 - 4b. **Database computer environment:** IBM mainframe, DB2.
 5. **Restrictions and conditions:** None.
 6. **Price information:** Minimal charge for access.
 7. **Corresponding printed sources:** System produces numerous reports and on-line queries; also allows data to be extracted electronically.
 8. **Languages:** English.
 9. **User aids available:** User's guide, on-line help screens.
 10. **Keywords:** Construction; Prairies; Transportation
 11. **Additional information:** None.
-

Highway Information System

HIS-0058-E

1. **Summary description:** Provides a comprehensive central database containing a verified source of engineering data on the department's existing road network.
- 2a. **Responsible organization:** Alberta Transportation and Utilities
- 2b. **Database contact:** Ms. Debbie Bassett, Director, Systems Maintenance, Information Systems Branch, Alberta Transportation and Utilities, 3rd Floor, 4999 - 98 Avenue, Edmonton, Alta. T6B 2X3
Phone: (403) 427-8690 *Facsimile:* (403) 422-0638
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - highway (number, control section, length)
 - roadways
- 3b. **Data acquisition methods:** See data centre contact.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Roadways.
- 3e. **Period of record:** 1970 to present.
- 3f. **Update frequency:** Weekly.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** IBM mainframe, DB2.
5. **Restrictions and conditions:** None.

6. **Price information:** Not applicable.
 7. **Corresponding printed sources:** None.
 8. **Languages:** English.
 9. **User aids available:** User's manual.
 10. **Keywords:** Prairies; Roads; Transportation
 11. **Additional information:** This database is shared by several corporate systems.
-

Origin Destination Information System

ODI-0157-E

1. **Summary description:** A consolidation of trip statistics from the Origin Destination System (ODS) from cordon and screen studies.
 - 2a. **Responsible organization:** Alberta Transportation and Utilities
 - 2b. **Database contact:** Mr. Peter Kilburn, Managing Engineer, Traffic Data Systems, Planning and Development, Alberta Transportation and Utilities, Twin Atria Building - Planning Branch, 4th Floor, 4999 - 98 Avenue, Edmonton, Alta. T6B 2X3
Phone: (403) 427-6720 *Facsimile:* (403) 422-2846
 - 2c. **Access mechanisms:** Through the responsible organization.
 - 3a. **Parameters measured:**
 - trip movements (thru/non thru trip distribution)
 - vehicle types
 - commercial vehicles (axle/tire configuration, truck type, box type, load utilization)
 - type of goods hauled (hazardous goods)
 - 3b. **Data acquisition methods:** Origin Destination System (ODS) records. Planning branch staff (see 11).
 - 3c. **Geographic coverage:** Screens (highways, provincial boundaries), cordons (cities, towns).
 - 3d. **Geographic units of measure:** ATS coordinates.
 - 3e. **Period of record:** 1962 to 1992. Data for 1962 to 1978 is archived in hardcopy.
 - 3f. **Update frequency:** Annually.
 - 4a. **Database storage format:** TSO flat files on mainframe.
 - 4b. **Database computer environment:** IBM mainframe using custom software.
 5. **Restrictions and conditions:** None.
 6. **Price information:** No charge.
 7. **Corresponding printed sources:** System generates many reports.
 8. **Languages:** English.
 9. **User aids available:** User Guide and System Support Guide.
 10. **Keywords:** Prairies; Transportation; Vehicles
 11. **Additional information:**
 1. The Origin Destination System (ODS) is an editing and reporting system for cordon and screen studies reporting on Origin Destination trip pairs and trip movements. System generates input data to modelling programs for trip assignments.
 2. ODS data includes origin destination trip pairs, trip movements and trip generations. See data centre contact for further information.
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Sand/Salt Utilization Program

SSU-0056-E

1. **Summary description:** Assists regional operations in tracking and reporting on the amount of sand and salt used by each shop in a district.

- 2a. **Responsible organization:** Alberta Transportation and Utilities
- 2b. **Database contact:** Mr. Clarence Dewald, Assistant Director, Construction Programs Branch, Alberta Transportation and Utilities, 4999 - 98 Avenue, Edmonton, Alta. T6B 2X3
Phone: (403) 427-3110 *Facsimile:* (403) 422-2978
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - sand and salt volume
 - geographic location
- 3b. **Data acquisition methods:** Sand and salt use reported by District staff.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Use is recorded on maintenance control sub-sections with predefined start and end points.
- 3e. **Period of record:** 1991 to present.
- 3f. **Update frequency:** Daily.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, CLIPPER 5.01.
5. **Restrictions and conditions:** None.
6. **Price information:** None.
7. **Corresponding printed sources:** This system generates a variety of reports.
8. **Languages:** English.
9. **User aids available:** User's manual.
10. **Keywords:** Contaminants; Prairies; Vehicles
11. **Additional information:** None.

Traffic Counter System

TCS-0039-E

1. **Summary description:** An editing, analysis, and reporting system for traffic volumes on Alberta Highway's collected by seasonal and permanent traffic counters.
- 2a. **Responsible organization:** Alberta Transportation and Utilities
- 2b. **Database contact:** Mr. Peter Kilburn, Managing Engineer, Traffic Data Systems, Planning and Development, Alberta Transportation and Utilities, Twin Atria Building - Planning Branch, 4th Floor, 4999 - 98 Avenue, Edmonton, Alta. T6B 2X3
Phone: (403) 427-6720 *Facsimile:* (403) 422-2846
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - traffic volume (hourly, daily, monthly and annual volumes, peak hours)
- 3b. **Data acquisition methods:** Traffic counters. Planning Branch staff.
- 3c. **Geographic coverage:** All primary and secondary highways in Alberta.
- 3d. **Geographic units of measure:** ATS and/or travel distance.
- 3e. **Period of record:** 1971 to 1992.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** TSO flat files on mainframe.
- 4b. **Database computer environment:** IBM mainframe, custom software.
5. **Restrictions and conditions:** Specific account codes only.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Monthly Traffic Volume Analysis Report; Annual Traffic Volume Analysis Report; Daily Traffic Distribution (Graphics).
8. **Languages:** English.
9. **User aids available:** User's guide and System support guide.

10. **Keywords:** Prairies; Transportation; Vehicles
11. **Additional information:** System superseded by Traffic Information System Data converted from 1988-1992. All new data will be managed by the Traffic Information System expected to be on-line by spring of 1994.

Weighted Traffic Volume Information System

WTV-0155-E

1. **Summary description:** An analysis and reporting system for traffic subsections and traffic control sections for Alberta's Primary and Secondary Highways.
- 2a. **Responsible organization:** Alberta Transportation and Utilities
- 2b. **Database contact:** Mr. Peter Kilburn, Managing Engineer, Traffic Data Systems, Planning and Development, Alberta Transportation and Utilities, Twin Atria Building - Planning Branch, 4th Floor, 4999 - 98 Avenue, Edmonton, Alta. T6B 2X3
Phone: (403) 427-6720 *Facsimile:* (403) 422-2846
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - traffic volumes for traffic subsections and control sections
 - vehicle class
 - travel
 - ESAL statistics
- 3b. **Data acquisition methods:** Consolidated Traffic Information System records. Planning branch staff.
- 3c. **Geographic coverage:** All primary and secondary highways in Alberta.
- 3d. **Geographic units of measure:** Control section/subsection and distances.
- 3e. **Period of record:** 1983 to present.
- 3f. **Update frequency:** Bi-annually.
- 4a. **Database storage format:** TSO flat files on mainframe.
- 4b. **Database computer environment:** IBM mainframe, custom software.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Traffic Volume and Vehicle Class Statistics; Traffic Volume, Travel and ESAL Statistics.
8. **Languages:** English.
9. **User aids available:** User's guide and System support guide.
10. **Keywords:** Prairies; Transportation; Vehicles
11. **Additional information:** System superseded by Traffic Information System Data converted from 1988-1992. All new data will be managed by the Traffic Information System expected to be on-line by spring of 1994.



Department of Community Development

Provincial Museum of Alberta Sciences Database

PMA-0026-E

1. **Summary description:** Records of natural history specimens in Provincial Museum of Alberta collections.
- 2a. **Responsible organization:** Department of Community Development

2b. Database contact: Ms. Margaret Ballantyne, Collections Manager, Provincial Museum of Alberta, Department of Community Development, 12845 - 102 Avenue, Edmonton, Alta. T5N 0M6

Phone: (403) 453-9191 *Facsimile:* (403) 454-6629

2c. Access mechanisms: Through the responsible organization or CHIN.

3a. Parameters measured:

- specimen data (name, collecting location, collecting date, weights, measurements)

3b. Data acquisition methods: Specimen collection, laboratory preparation. Numerous specimen sources.

3c. Geographic coverage: Worldwide, mainly Alberta.

3d. Geographic units of measure: Latitude and longitude.

3e. Period of record: Late 1800's to present. Most Alberta material, 1960's to present.

3f. Update frequency: As required.

4a. Database storage format: Hardcopy, diskette. Data stored on mainframe.

4b. Database computer environment: Mainframe, PC, Macintosh.

5. Restrictions and conditions: Some may apply.

6. Price information: No charge.

7. Corresponding printed sources: Provincial Museum of Alberta occasional papers.

8. Languages: English.

9. User aids available: None.

10. Keywords: Prairies; Research; Wildlife

11. Additional information:

1. Requested data distributed by diskette and printouts.
2. The National Database for the Natural Sciences held by CHIN (Canadian Heritage Information Network, Ottawa) has a subset of the fields of this database.



Department of Energy

Land Status Automated System

LSA-0050-E

1. Summary description: A computerized system which provides access to status information on public land and Crown minerals and all related interests and clients.

2a. Responsible organization: Department of Energy

2b. Database contact: Mr. Liam Barry, Director, Crown Resources Data and Services, General Services Division, Department of Energy, 6th Floor, 9915 - 108 Street, Edmonton, Alta. T5K 2C9

Phone: (403) 427-4468 *Facsimile:* (403) 427-9838

2c. Access mechanisms: For access to paper reports and electronic data see 11.

3a. Parameters measured:

- land (description, acreage, hectares)
- agreement/disposition number
- client (name, address)
- date (application, disposition, cancellation)
- remarks
- administrative data

3b. Data acquisition methods: Paper files and record of ownership and interests in Crown land and resources. Process

of acquiring ownership and interests on Crown land/resources based on legislated/regulated process.

3c. Geographic coverage: Alberta.

3d. Geographic units of measure: Township, section, quarter section, legal subdivision, quarter quadrant (2.5 acre parcel).

3e. Period of record: 1983 to present. Mid-1980's to present.

3f. Update frequency: Real time on-line update.

4a. Database storage format: Hardcopy, tapes for sub-surface data, on-line access.

4b. Database computer environment: IBM mainframe, IDMS.

5. Restrictions and conditions: Limited to predefined public products.

6. Price information: Varies depending on product (see 11).

7. Corresponding printed sources: Brochure available from data centre contact.

8. Languages: English.

9. User aids available: User's manual, in-house training and education.

10. Keywords: Geography; Land use; Prairies

11. Additional information:

1. Paper reports can be acquired from Information Centre, Calgary. Electronic access through Land Information Alberta.
2. Data costs range from a \$6.00 basic search to \$1,100.00 for the Mineral Data Tape. There is no charge to Provincial Government users.

Mineral Revenues System

MRS-0287-E

1. Summary description: Information for calculating royalties and taxes owing to the crown resulting from the extraction of mineral resources.

2a. Responsible organization: Department of Energy

2b. Database contact: Mr. John Holowaychuk, Operations Manager, Energy Systems Branch, Department of Energy, 3rd Floor, 9940 - 106 Street, Edmonton, Alta. T5K 2P6

Phone: (403) 422-4764 *Facsimile:* (403) 427-5696

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- oil, gas and gas by-product (volumes, prices, crown royalty volumes, dollars)
- allowable deductions
- client information

3b. Data acquisition methods: Collection and monitoring. Direct input from forms and tapes from clients and other organizations like ERCB.

3c. Geographic coverage: Alberta.

3d. Geographic units of measure: Wells referenced by range, meridian.

3e. Period of record: 1988 to present - online.

3f. Update frequency: Monthly.

4a. Database storage format: Tape, diskette.

4b. Database computer environment: IBM - IDSM, some PC interaction.

5. Restrictions and conditions: Authorized personnel only.

6. Price information: No charge.

7. Corresponding printed sources: None.

8. Languages: English.

9. User aids available: User's, technical and reference software guides.

10. Keywords: Extraction; Great Lakes; Mining

11. Additional information: None.

Other Minerals Royalty System

OMR-0289-E

1. **Summary description:** Lease number, production volume and royalty payable for salt and quarrying operations.
- 2a. **Responsible organization:** Department of Energy
- 2b. **Database contact:** Mr. Ian McKellar, Manager, Coal and Other Royalty, Mineral Revenues, Department of Energy, 9945 - 108 Street, Edmonton, Alta. T5K 2G6
Phone: (403) 427-2955 Facsimile: (403) 422-9689
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - salt (tonnes of production)
 - quarrying (tonnes per m³ production of limestone, slate, shale)
- 3b. **Data acquisition methods:** Royalty payer filed reports.
- 3c. **Geographic coverage:** 30 to 40 leases scattered over Alberta.
- 3d. **Geographic units of measure:** Leases ranging from 64 to 512 hectares referenced by township.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Hardcopy, microfilm, diskette.
- 4b. **Database computer environment:** PC, LOTUS 123.
5. **Restrictions and conditions:** Data is confidential, summary statistics are available.
6. **Price information:** No charge.
7. **Corresponding printed sources:** A royalty verification module is prepared for each mineral. Cash receipt data are summarized in annual departmental reports
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Minerals; Mining; Prairies
11. **Additional information:** None.



Department of Environmental Protection

Air Laboratory Information Management System

AIR-0036-E

1. **Summary description:** Chemical analysis data for air samples collected in Alberta.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Dr. R. S. McDaniel, Head, Data Management, Physical and Engineering Sciences, Alberta Environmental Centre, Department of Environmental Protection, P.O. Bag 4000, Vegreville, Alta. T9C 1T4
Phone: (403) 632-8495 Facsimile: (403) 632-8379
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - sample identification
 - analysis information (Cd, Pb, ammonia, particulates)
 - test methods
- 3b. **Data acquisition methods:** Ambient, high volume, precipitation, stack, stationary and volatile samplers. Air samples col-

lected for the purposes of monitoring by departmental staff and other organizations.

- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Verbal description of location.
- 3e. **Period of record:** 1988 to present.
- 3f. **Update frequency:** Continuous.
- 4a. **Database storage format:** Hard disk, see data centre contact for other media options.
- 4b. **Database computer environment:** PC, VAX.
5. **Restrictions and conditions:** Access is being reviewed on a departmental basis.
6. **Price information:** Under review.
7. **Corresponding printed sources:** Several standard reports.
8. **Languages:** English.
9. **User aids available:** Screen directed.
10. **Keywords:** Air quality; Human Health; Prairies
11. **Additional information:**
 1. Database contains 9,500 samples and 47,000 analytical parameters to date.
 2. This system was developed in-house on a VAX server/PC LAN platform using Rdb/SQL/PASCAL.
 3. This database contains air sample data from the original AIRLIMS database.

Alberta Commercial Fishing License Database

ACF-0540-E

1. **Summary description:** Records of commercial lake licenses held by commercial fishermen.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Ms. Michelle Aasgard, Supervisor, Licensing Services, Fish and Wildlife Services, Department of Environmental Protection, 9945 - 108 Street, Edmonton, Alta. T5K 2G6
Phone: (403) 427-6730 Facsimile: (403) 422-9559
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - name (address, commercial zone)
 - fish licensed to catch
- 3b. **Data acquisition methods:** Individual commercial licence foils. Licences for commercial fishing are required under the Fisheries Act (Alberta).
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Commercial zone and water-body.
- 3e. **Period of record:** 1987 to present.
- 3f. **Update frequency:** Weekly.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE.
5. **Restrictions and conditions:** Access is restricted.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Annual reports.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Fisheries; Harvesting; Prairies
11. **Additional information:** None.

Alberta Domestic Fishing License Database

ADF-0295-E

1. **Summary description:** Records of individual lake licenses issued for domestic fisheries.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. Ken Bodden, Licensing Services, Fish and Wildlife Services, Department of Environmental Protection, 9945 - 108 Street, Edmonton, Alta. T5K 2G6
Phone: (403) 427-6730 *Facsimile:* (403) 422-9559
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - waterbody
 - fisherman (name, address, treaty number, birth date, mesh size, license number, issue date)
- 3b. **Data acquisition methods:** Domestic license issues. Individual license foils.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Commercial fishing zone and waterbody.
- 3e. **Period of record:** 1983 to present.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Hard disk.
- 4b. **Database computer environment:** PC, DBASE.
5. **Restrictions and conditions:** Information not provided on individual fishermen.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Annual reports.
8. **Languages:** English.
9. **User aids available:** User's manual.
10. **Keywords:** Fisheries; Harvesting; Prairies
11. **Additional information:** None.

Alberta Forest Inventory Storage and Maintenance System

AFO-0169-E

1. **Summary description:** This system stores and maintains data on forests in Alberta. The maps and associated data are the basis for forest management decisions.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. Stephen McLachlin, Systems Analyst, Land and Forest Services, Department of Environmental Protection, 9920 - 108 Street, Edmonton, Alta. T5K 2M4
Phone: (403) 427-3551 *Facsimile:* (403) 427-0292
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - land (status, location, watershed)
 - forest (management unit, stand parameters)
 - cover type/volume parameters
- 3b. **Data acquisition methods:** Aerial photography and ground truthing. Interpretation of aerial photographs for depletions (forest fires, harvesting) recorded by Departmental staff.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Watershed, forest management unit, township, range, meridian.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** Updated regularly for depletions.
- 4a. **Database storage format:** Hardcopy, tape, hard disk, diskette.

- 4b. **Database computer environment:** Mainframe, TSO, JCL, COBOL, FOCUS.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Various statistical reports, data files and forest cover maps are produced.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Forestry; North; Trees
11. **Additional information:** Alberta Vegetation Inventory data will be added in the future.

Alberta Vegetation Inventory

AVI-0291-E

1. **Summary description:** An inventory of vegetation polygons and related attribute data.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. R. Thompson, Manager, Resource Information, Department of Environmental Protection, 4th Floor, 9945 - 108 Street, Edmonton, Alta. T5K 2G6
Phone: (403) 427-7222 *Facsimile:* (403) 427-0712
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - moisture regime
 - land stratification
 - timber productivity rating
 - crown closure
 - stand height
 - species composition
 - origin
 - stand structure/understory
- 3b. **Data acquisition methods:** Air photo interpretation. Interpretation of aerial photography was supported by ground truthing. Computer entry of spatial and attribute data.
- 3c. **Geographic coverage:** Goal is to cover the total province exclusive of federal and urban lands.
- 3d. **Geographic units of measure:** Townships.
- 3e. **Period of record:** 1990 to present.
- 3f. **Update frequency:** To be determined.
- 4a. **Database storage format:** 9-track tapes, 3.5" HD diskettes.
- 4b. **Database computer environment:** DEC 5000/200-DEC AXP300.
5. **Restrictions and conditions:** None.
6. **Price information:** Not established.
7. **Corresponding printed sources:** Several reports have been prepared.
8. **Languages:** English.
9. **User aids available:** Manual describing data collection methods.
10. **Keywords:** Ecology; Prairies; Trees
11. **Additional information:** None.

Ambient Air Information System

AAI-0030-E

1. **Summary description:** Historical repository of ambient air quality monitoring data.
- 2a. **Responsible organization:** Department of Environmental Protection

- 2b. Database contact:** Head, Database and Information System, Waste and Chemicals Division, Department of Environmental Protection, 9820 - 106 Street, Edmonton, Alta. T5K 2J6
Phone: (403) 427-5893 *Facsimile:* (403) 422-9714
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- various air pollutants (NO; NO₂; NO_x; O₃; CO; HC; SO₂; H₂S)
 - particulates
 - exposure cylinders/candles
 - wet and dry deposition
- 3b. Data acquisition methods:** Continuous, intermittent and static monitors. Monitoring data collected by departmental staff.
- 3c. Geographic coverage:** Municipalities and rural areas throughout Alberta.
- 3d. Geographic units of measure:** Latitude and longitude.
- 3e. Period of record:** Varies depending on monitoring program.
- 3f. Update frequency:** Quarterly.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** SUN workstation.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** Air quality assessment reports.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Air quality; Contaminants; Prairies
- 11. Additional information:** None.

Aspen Biodiversity Database

ABD-0136-E

- 1. Summary description:** Wildlife species in three stand ages of aspen-dominated boreal forest in northeastern Alberta.
- 2a. Responsible organization:** Department of Environmental Protection
- 2b. Database contact:** Mr. Brad Stelfox, Wildlife Ecologist, Department of Environmental Protection, Bag 4000, Vegreville, Alta. T9C 1T4
Phone: (403) 632-8306 *Facsimile:* (403) 632-8379
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- stand (tree species, DBH, height, canopy closure, herb species, shrub species, dead woody material, mosses, lichens, age)
 - wildlife (species - birds, small mammals, ungulates, density)
- 3b. Data acquisition methods:** Field survey, aerial photographs. Surveys and photo interpretation conducted by Departmental staff.
- 3c. Geographic coverage:** Northeastern Alberta.
- 3d. Geographic units of measure:** Hectare, Forest Stand Level (= 100 ha).
- 3e. Period of record:** 1991 to present.
- 3f. Update frequency:** Annually.
- 4a. Database storage format:** Diskette.
- 4b. Database computer environment:** Macintosh, STATVIEW, FILEMAKER PRO.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** Progress reports.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** North; Trees; Wildlife

- 11. Additional information:** None.

Automated Lightning Detection System

ALD-0021-E

- 1. Summary description:** This system provides real-time information on the occurrence and progress of lightning ground strikes in Alberta since lightning is a major cause of forest fires within the province.
- 2a. Responsible organization:** Department of Environmental Protection
- 2b. Database contact:** Mr. Stephen McLachlin, Systems Analyst, Land and Forest Services, Department of Environmental Protection, 9920 - 108 Street, Edmonton, Alta. T5K 2M4
Phone: (403) 427-3551 *Facsimile:* (403) 427-0292
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- lightning strike maps
 - statistical reports (lightning types, time of occurrence, direction from site, intensity)
- 3b. Data acquisition methods:** Direction finder network. The network intercepts and analyses electromagnetic radiation generated by lightning strokes. Digital information transmitted to a central Position Analyser for processing.
- 3c. Geographic coverage:** Alberta.
- 3d. Geographic units of measure:** Latitude and longitude.
- 3e. Period of record:** 1984 to present.
- 3f. Update frequency:** Continuous.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, FORTRAN, APL and some proprietary processes.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Climatology; Fires; Prairies
- 11. Additional information:**
1. Both the hardware and software used in this system are proprietary products of Lightning Locations and Protection Inc. - the only vendor supplying this type of system on this continent.
 2. Lightning strikes are mapped over 24 hour periods, coded by time (colour).
 3. Processed information sent to each Forest Headquarters Office and the Provincial Forest Fire Centre (PFFC) for display or hard copy printout.

Avian Nest Data

AND-0115-E

- 1. Summary description:** Nesting location and habitat for birds in Alberta.
- 2a. Responsible organization:** Department of Environmental Protection
- 2b. Database contact:** Mr. Bruce Treichel, Wildlife Biologist, Wildlife Management, Fish and Wildlife Services, Department of Environmental Protection, 7th Floor, 6909 - 116 Street, Edmonton, Alta. T6H 4P2
Phone: (403) 422-9535 *Facsimile:* (403) 422-9685
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- nest locations
 - species

- habitat information
- sighting dates
- banding information

- 3b. **Data acquisition methods:** Survey. Avian nest cards.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** UTM coordinates, latitude and longitude, legal land description.
- 3e. **Period of record:** 1980 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC, DBASE.
5. **Restrictions and conditions:** Certain aspects of data restricted to departmental use.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Reports are produced on an adhoc basis.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Birds; Ecology; Prairies
11. **Additional information:** None.

Bird Atlas

BA-0116-E

1. **Summary description:** Activity and location data for birds breeding in Alberta obtained through the Breeding Bird survey.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. Bruce Treichel, Wildlife Biologist, Wildlife Management, Fish and Wildlife Services, Department of Environmental Protection, 7th Floor, 6909 - 116 Street, Edmonton, Alta. T6H 4P2
Phone: (403) 422-9535 *Facsimile:* (403) 422-9685
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - breeding activity (presence or absence)
 - bird location (any breeding birds)
 - siting dates
 - people doing atlassing
- 3b. **Data acquisition methods:** Field survey. Voluntary data sheet submission.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** 10 square mile blocks.
- 3e. **Period of record:** 1988 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Book published - *Atlas of Breeding Birds of Alberta*.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Birds; Prairies; Wildlife
11. **Additional information:** None.

Climate Data Information System

CDI-0290-E

1. **Summary description:** A database containing minimum/maximum air temperature, soil temperature at 5 and 50 cm, and pre-

cipitation collected from climate data stations across the province.

- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. Ryan Eade, Climate Technician, Resource Information, Department of Environmental Protection, 4th Floor, 9945 - 108 Street Edmonton, Alta. T5K 2G6
Phone: (403) 427-0708 *Facsimile:* (403) 422-0712
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - air temperature (minimum, maximum)
 - soil temperature (5, 50 cm.)
 - precipitation
- 3b. **Data acquisition methods:** Monitoring. 1979-1991 bar charts and digitized records.
- 3c. **Geographic coverage:** Various network locations across Alberta.
- 3d. **Geographic units of measure:** Climate data stations referenced by latitude and longitude and legal land description.
- 3e. **Period of record:** 1979 to present.
- 3f. **Update frequency:** Formerly monthly, currently quarterly.
- 4a. **Database storage format:** Diskette, 9-track tape (late 1980's data).
- 4b. **Database computer environment:** PC, PARADOX.
5. **Restrictions and conditions:** None.
6. **Price information:** To be determined.
7. **Corresponding printed sources:** Initially reports were prepared by the Department, subsequently clients prepare reports using data supplied.
8. **Languages:** English.
9. **User aids available:** System management and user's manual.
10. **Keywords:** Climate; Climatology; Prairies
11. **Additional information:** The parameters and period of record may vary among data stations.

Commercial Bait Fishing License Sales and Statistics

CBF-0296-E

1. **Summary description:** Summary of license sales and harvest of commercial bait fishing industry.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. Ken Bodden, Licencing Services, Fish and Wildlife Services, Department of Environmental Protection, 9945 - 108 Street, Edmonton, Alta. T5K 2G6
Phone: (403) 427-6730 *Facsimile:* (403) 422-9559
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - fisherman (address)
 - lake
 - date of license issue
 - harvest
- 3b. **Data acquisition methods:** Survey of fishermen. Annual report of bait fishing activities.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Waterbody.
- 3e. **Period of record:** 1987 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hard disk.
- 4b. **Database computer environment:** PC, DBASE.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.

7. **Corresponding printed sources:** Annual departmental report.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Fisheries; Harvesting; Prairies
11. **Additional information:** None.

Commercial Fishing Statistics

CFS-0048-E

1. **Summary description:** Summary of commercial harvest and landed value by lake, zone and species.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. Ken Bodden, Commercial Fisheries Coordinator, Fish and Wildlife Services, Department of Environmental Protection, 9945 - 103 Street, Edmonton, Alta. T6H 1C3
Phone: (403) 427-6730 Facsimile: (403) 422-9559
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - by species (landed weight in kg, landed value, total production, total value)
 - by waterbody (all species data above, number of fishermen, number of nets, licence sales)
- 3b. **Data acquisition methods:** Commercial fisheries monitoring. Data compiled from commercial fishery statistic sheets required by standards and procedures.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Commercial zone and waterbody.
- 3e. **Period of record:** 1984 to present.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC, LOTUS 123.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Fisheries; Harvesting; Prairies
11. **Additional information:** None.

Compulsory Registration (Wildlife)

CR-0119-E

1. **Summary description:** Registration statistics of specific Alberta big game species.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Ms. Sylvia G. Birkholz, Wildlife Technician, Wildlife Management, Fish and Wildlife Services, Department of Environmental Protection, 7th Floor, 6909 - 116 Street, Edmonton, Alta. T6H 4P2
Phone: (403) 422-9534 Facsimile: (403) 422-9685
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - animal kills (elk, mule deer, cougar, grizzly bear, caribou, goat, bighorn sheep)
 - kill (dates, methods, locations)
 - residency status of harvester
 - horn measurements
 - antler points

- 3b. **Data acquisition methods:** Survey. Registrations from Alberta Fish and Wildlife field offices.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Wildlife management units, legal land description.
- 3e. **Period of record:** 1972 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, QUATTRO PRO, Q&A.
5. **Restrictions and conditions:** Certain aspects of data restricted to departmental staff.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Hardcopy available upon request.
8. **Languages:** English.
9. **User aids available:** Copy of registration form; hardcopy report for information prior to 1982.
10. **Keywords:** Harvesting; Prairies; Wildlife
11. **Additional information:** It is compulsory that certain species be registered by the hunter after they are killed.

Cruise Compilation (Forest)

CRU-0313-E

1. **Summary description:** The Cruise Compilation system processes and stores standing tree measurement data. The purpose of this system is to compile: (a) data for summaries of diameter distribution, age, height, and volume by species, plot, cover type and cruise; (b) harvestable volumes on percent removal, stand merchantability, utilization level, and species; (c) cruise data to show mill utilization potential in the form of log length and volumes by species and cover type.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. Stephen McLachlin, Systems Analyst, Land and Forest Services, Department of Environmental Protection, 9920 - 108 Street, Edmonton, Alta. T5K 2M4
Phone: (403) 427-3551 Facsimile: (403) 427-0292
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - cruise
 - stand
 - tree
 - large scale photograph (LSP)
- 3b. **Data acquisition methods:** Cruise tally sheets. Field data collected by foresters and technicians.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Cruises referenced by forest management units.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** Mainframe, COBOL, FORTRAN.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Cruise Compilation Statements. Timber Yield Estimates.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Forestry; North; Trees

- 11. Additional information:** Approximately 160 cruises are completed per year.

Digital Base Map (1:20 000)

ADB-0076-E

- 1. Summary description:** Baseline digital mapping of the province of Alberta at a scale of 1:20 000.
- 2a. Responsible organization:** Department of Environmental Protection
- 2b. Database contact:** Mr. Bob Thoman, Senior Supervising Technologist, Provincial Mapping Section, Department of Environmental Protection, 4949 94B Avenue, 50th Street, Edmonton, Alta. T6B 2T5
Phone: (403) 427-6467 *Facsimile:* (403) 422-0973
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - administrative boundaries
 - Alberta Township System linework
 - hydrography
 - transportation
 - contours
- 3b. Data acquisition methods:** Stereocompilation from 1:60 000 aerial photography. Information provided by Information Resources Management Services, Department of Environmental Protection.
- 3c. Geographic coverage:** Alberta.
- 3d. Geographic units of measure:** 1:20 000 NTS mapsheets.
- 3e. Period of record:** Data current as of year of production.
- 3f. Update frequency:** Irregular.
- 4a. Database storage format:** Diskette, tape.
- 4b. Database computer environment:** PC, UNIX.
- 5. Restrictions and conditions:** None.
- 6. Price information:** Varies, (see 11).
- 7. Corresponding printed sources:** Some of the maps are available in hard copy, most available only in digitized form.
- 8. Languages:** English.
- 9. User aids available:** The user is provided with a listing of features at various levels in the software and decompression software.
- 10. Keywords:** Geographic Information System; Geography; Prairies
- 11. Additional information:**
 1. Digital Elevation Model data also available at 25m, 50m and 100m spacing.
 2. The database is currently 85 percent complete.
 3. Prices as follows: \$50.00 per magnetic tape, \$50.00 for first 3 disks, \$10.00 per each additional disk, \$175.00 per map-sheet.

Digital Base Maps

DBM-0078-E

- 1. Summary description:** Digital mapping files of the province at 1:2 000 000, 1:1 000 000 and 1:250 000 as well as cities and towns at 1:20 000.
- 2a. Responsible organization:** Department of Environmental Protection
- 2b. Database contact:** Mr. Mike Wells, Manager, Base Mapping, Provincial Mapping, Surveying and Mapping Division, Information Resources Management Services, Department of Environmental Protection, 4949 94B Avenue, 50th Street, Edmonton, Alta. T6B 2T5
Phone: (403) 427-5955 *Facsimile:* (403) 422-0973

- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - all digital map files (Alberta Township System, geo-administrative boundaries, hydrography, transportation)
- 3b. Data acquisition methods:** Existing maps. Information provided by many sources such as Alberta Transportation.
- 3c. Geographic coverage:** Alberta; maps for all cities are completed, 40 of the 109 towns have been covered.
- 3d. Geographic units of measure:** UTM projections referenced to NTS mapsheets.
- 3e. Period of record:** Data current as of 1993.
- 3f. Update frequency:** Monthly.
- 4a. Database storage format:** Diskette (in ISFF and CCOGIF formats only).
- 4b. Database computer environment:** INTERGRAPH workstations, PC's, UNIX.
- 5. Restrictions and conditions:** Files are under copyright, sales agreement required.
- 6. Price information:** See 11.
- 7. Corresponding printed sources:** Maps available in hard copy.
- 8. Languages:** English.
- 9. User aids available:** Feature code list.
- 10. Keywords:** Great Lakes; Hydrography; Land use
- 11. Additional information:**
 1. Media costs for maps at any scale are as follows: \$50.00 per magnetic tape, \$50.00 first 3 disks plus \$10.00 per additional disk. File costs are as follows: 1:2 000 000 scale is \$250.00; 1:1 000 000 scale is \$800.00 for complete file or \$250.00 per feature class; 1:250 000 scale is \$250.00, or \$75.00 per feature class; cities and towns: for Edmonton and Calgary \$500.00; other cities \$250.00, towns \$125.00.
 2. The files for cities and towns are an enhancement to the 1:20 000 PDB series.

Directory of Primary Woods

DPW-0024-E

- 1. Summary description:** This database stores, maintains and reports on information about primary wood using industries in Alberta.
- 2a. Responsible organization:** Department of Environmental Protection
- 2b. Database contact:** Mr. Stephen McLachlin, Systems Analyst, Land and Forest Services, Department of Environmental Protection, 9920 - 108 Street, Maple, Alta. T5K 2M4
Phone: (403) 427-3551 *Facsimile:* (403) 427-0292
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - mill (location, capacity, production, products, market)
 - wood supply
 - harvest system
 - milling system
 - wood residues
 - energy supply
 - employment statistics
- 3b. Data acquisition methods:** Questionnaires distributed to mills and returned to the department.
- 3c. Geographic coverage:** Alberta.
- 3d. Geographic units of measure:** Mills referenced by town, township, range and meridian.
- 3e. Period of record:** Not applicable.
- 3f. Update frequency:** Bi-annually.
- 4a. Database storage format:** Diskette.

- 4b. **Database computer environment:** PC, PARADOX, WORD-PERFECT, LOTUS 123.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Directory of Primary Wood-Using Industries.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Industry; Prairies; Wood
11. **Additional information:** None.

Environmentally Significant Areas

ESA-0293-E

1. **Summary description:** An inventory summary of reports describing significant features throughout the province.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. John Rintoul, Information Officer, Natural Areas Program, Department of Environmental Protection, 8th Floor, Standard Life Centre, 10405 Jasper Avenue, Edmonton, Alta. T5J 3N4
Phone: (403) 427-5209 Facsimile: (403) 422-5980
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - environmentally significant (landscapes, wildlife habitats, fish habitats, geological sites)
 - lands with major physical constraints
 - areas of biological importance
 - site management recommendations
- 3b. **Data acquisition methods:** Field survey. Vegetation and physical features of environmental significance are noted and recorded.
- 3c. **Geographic coverage:** Various sites throughout Alberta.
- 3d. **Geographic units of measure:** Ecological polygons.
- 3e. **Period of record:** 1983 to present.
- 3f. **Update frequency:** Irregular.
- 4a. **Database storage format:** Hardcopy, maps.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** Not established.
7. **Corresponding printed sources:** Numerous Environmentally Significant Areas reports.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Environmental Science; Landscape; Prairies
11. **Additional information:** Implementation of GIS technology planned in the near future.

Fire History and Detection System

FP4-0308-E

1. **Summary description:** The FP48 and Detection System records and provides information on the occurrence, detection, prevention and suppression of all wild fires occurring in the forest protection area of Alberta. The information recorded is used for many purposes including legal action, timber volume loss determination, suppression costs calculation, and statistical analysis of the fire management programs such as fire prevention, detection, and suppression.
- 2a. **Responsible organization:** Department of Environmental Protection

- 2b. **Database contact:** Mr. Stephen McLachlin, Systems Analyst, Land and Forest Services, Department of Environmental Protection, 9920 - 108 Street, Edmonton, Alta. T5K 2M4
Phone: (403) 427-3551 Facsimile: (403) 427-0292
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - fire (number, location, descriptives)
 - weather
 - detection
 - initial attack
 - fire size and times
 - objectives
 - burned (area, volume)
 - costs (headquarters, aerial detection costs)
 - lookout (costs, performance)
- 3b. **Data acquisition methods:** Monitoring. An initial fire message is sent within 24 hours of discovering a fire. After the fire has been extinguished an individual fire report is completed.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Latitude and longitude, NTS mapsheet.
- 3e. **Period of record:** 1961 to present.
- 3f. **Update frequency:** Individual fire data once a month, final costs at year end.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE IV.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** A variety of reports are produced and are used for various management purposes within the Alberta Forest Service.
8. **Languages:** English.
9. **User aids available:** FP48 Instruction manual.
10. **Keywords:** Fire; Forestry; Prairies
11. **Additional information:** None.

Fire Statistics System

FSS-0023-E

1. **Summary description:** The Fire Statistics System maintains and reports statistical information on areas of burned forested land within the Province of Alberta.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. Stephen McLachlin, Systems Analyst, Land and Forest Services, Department of Environmental Protection, 9920 - 108 Street, Edmonton, Alta. T5K 2M4
Phone: (403) 427-3551 Facsimile: (403) 427-0292
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - forest cover type
 - cover type information (fire number (district, number, year), forest management unit, township, range, meridian, stand number, density, height species, cover group, overstory hectare area, understory hectare area, saw log volume loss, small log volume loss, deciduous volume loss, fire value)
 - forest fire boundaries
- 3b. **Data acquisition methods:** Forest fire boundary maps. Using forest cover type maps (updated with forest fire boundaries) the cover type and burned area for every forest stand within a particular forest fire is recorded. Timber volumes and fire loss values are calculated from provincial aggregate tables based on forest cover type.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** UTM coordinates.

- 3e. **Period of record:** 1977 to present.
- 3f. **Update frequency:** As fire data received.
- 4a. **Database storage format:** Hard disk, tapes.
- 4b. **Database computer environment:** PC, COBOL, COBOL-IQ.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Volumes and Values Lost reports.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Fire; Forestry; Prairies
11. **Additional information:**
 1. Information is collected for fires usually affecting more than 15 hectares of productive timber.
 2. The system generates various statistical and summary reports which are used by foresters, technologists, senior management and regional forest staff to provide a breakdown of volume and dollar loss as a result of a forest fire.
 3. The system is usually used during April and September which is the fire season.

Forest Ecology - Site Classification

FES-0170-E

1. **Summary description:** This system serves as the data bank for site classification information collected from Alberta forests. The information is used in various types of analyses which assist with the management of forest resources.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. Stephen McLachlin, Systems Analyst, Land and Forest Services, Department of Environmental Protection, 9920 - 108 Street, Edmonton, Alta. T5K 2M4
Phone: (403) 427-3551 *Facsimile:* (403) 427-0292
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - site (plot number, location)
 - site mensuration (species, age, measurements)
 - vegetation
 - soil (description, chemistry)
- 3b. **Data acquisition methods:** Reports. Departmental staff integrate both internal and external data sources for this system.
- 3c. **Geographic coverage:** Rocky/Clearwater and Bow/Crow forests.
- 3d. **Geographic units of measure:** Latitude and longitude, NTS map sheet, township and range, meridian.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Hardcopy, tape, hard disk, diskette.
- 4b. **Database computer environment:** Mainframe, JCL, SAS, PC, DBASE IV.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Various statistical reports and data files are produced.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Ecology; North; Trees
11. **Additional information:** At present over 750 plots have been entered onto the system.

Fur Affidavits

FAF-0112-E

1. **Summary description:** Annual harvest from registered trappers.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. Robert McFetridge, Wildlife Biologist, Wildlife Management, Fish and Wildlife Services, Department of Environmental Protection, 7th Floor, 6909 - 116 Street, Edmonton, Alta. T6H 4P2
Phone: (403) 422-9536 *Facsimile:* (403) 422-9685
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - animal harvest (species, number of animals)
 - trapper name
 - RFMA (registered fur management area)
- 3b. **Data acquisition methods:** Field survey. Form submitted annually by trappers.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** RFMA.
- 3e. **Period of record:** 1970 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC, DBASE.
5. **Restrictions and conditions:** Some restrictions may apply.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Graphs; maps are being generated.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Harvesting; Prairies; Wildlife
11. **Additional information:** None.

Fur Registration

FR-0114-E

1. **Summary description:** Registration of wolverine, lynx and fisher harvest.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. Robert McFetridge, Wildlife Biologist, Wildlife Management, Fish and Wildlife Services, Department of Environmental Protection, 7th Floor, 6909 - 116 Street, Edmonton, Alta. T6H 4P2
Phone: (403) 422-9536 *Facsimile:* (403) 422-9685
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - species (fisher, wolverine, lynx)
 - sex
 - harvest date
 - pelt length
 - RFMA (Registered Fur Management Area)
- 3b. **Data acquisition methods:** Survey. Fur registration form (compulsory).
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** RFMA.
- 3e. **Period of record:** 1988 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC, DBASE.
5. **Restrictions and conditions:** Restricted to departmental use.

6. **Price information:** No charge.
7. **Corresponding printed sources:** Reports are adhoc.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Harvesting; Prairies; Wildlife
11. **Additional information:** None.

Geophysical Administration Support System

GAS-0172-E

1. **Summary description:** This system assists the Department in the approval and administration process of exploration applications submitted by oil and gas companies in Alberta. The system provides assessments of exploration monetary penalties, statistical reports and timber damage assessments which result from exploration activity.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. Stephen McLachlin, Systems Analyst, Land and Forest Services, Department of Environmental Protection, 9920 - 108 Street, Edmonton, Alta. T5K 2M4
Phone: (403) 427-3551 *Facsimile:* (403) 427-0292
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - final plan (program number, license, location, forest impacts)
 - licensee (address, contact, activity)
 - penalty (infraction, damage, fine)
 - exploration application
 - timber damage assessment
- 3b. **Data acquisition methods:** Applications. Departmental staff enter the data from external applicants.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Latitude and longitude, section, township and range, meridian.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, MICROFOCUS, COBOL.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Various reports and statistics are generated by the system.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Exploration; Prairies; Seismology
11. **Additional information:** Approximately 3,000 applications are processed each year.

Grant Administration Management System

GAM-0145-E

1. **Summary description:** Database designed to administer terms and conditions for the Resource Recovery Grant Program and provide a database on communities operating recycling/waste minimization projects.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Ms. Luanne Marks, Recycling Technologist, Waste Management, Department of Environmental Protection, 9820 - 106 Street, Edmonton, ALTA T5K 2P6
Phone: (403) 427-5838 *Facsimile:* (403) 422-5120
- 2c. **Access mechanisms:** Through the responsible organization.

- 3a. **Parameters measured:**
 - project (description, status)
 - contact person, address
 - reporting requirements by grant recipients
 - statistical information on materials diverted from the waste stream
 - internal administrative information
- 3b. **Data acquisition methods:** Municipalities and non-profit organizations. Grant proposals from grant applicants; follow-up phone calls and letters for updates; direct contact with municipalities.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Municipalities.
- 3e. **Period of record:** 1993 to present.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE IV.
5. **Restrictions and conditions:** Some restrictions may apply.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Several reports available.
8. **Languages:** English.
9. **User aids available:** User's guide specific to GAMS.
10. **Keywords:** Environmental Science; Prairies; Water
11. **Additional information:** Currently the database is in a constant state of change as new requirements are identified. It will be changed shortly from grant-based information to project-based information.

Groundwater Bibliography

GBI-0470-E

1. **Summary description:** A bibliography of groundwater related reports in Alberta.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. Joe Marciniuk, Section Head, Groundwater Information and Monitoring Section, Technical Services and Monitoring Division, Department of Environmental Protection, 14th Floor, Standard Life Centre, 10405 Jasper Avenue, Edmonton, Alta. T5J 3N4
Phone: (403) 427-6188 *Facsimile:* (403) 422-2876
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - author (affiliation)
 - report (title, number of pages, appendix, year of publication, if microfilmed)
 - report coverage (NTS map sheet, Alberta Land Survey System Legal Location)
- 3b. **Data acquisition methods:** Reports required before large groundwater consumers can operate. Entered and stored by department.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** 1:50 000 or 1:250 000 NTS map sheet numbers and Alberta Land Survey System Legal Locations.
- 3e. **Period of record:** Various years.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, PROCITE.
5. **Restrictions and conditions:** None.
6. **Price information:** \$50.00 per diskette.
7. **Corresponding printed sources:** Data printouts or computer readable files prepared on request.
8. **Languages:** English.

9. **User aids available:** None.
10. **Keywords:** Prairies; Hydrology; Regulation
11. **Additional information:** There are over 5,400 entries retrievable through keyword searches.

Groundwater Level Digitizing System

GLD-0298-E

1. **Summary description:** Plots of water levels in wells versus time.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. Joe Marciniuk, Section Head, Groundwater Information and Monitoring, Technical Services and Monitoring, Department of Environmental Protection, 14th Floor, 10405 Jasper Avenue, Edmonton, Alta. T5J 3N4
Phone: (403) 427-6188 *Facsimile:* (403) 427-1214
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - water level
 - well (depth, yield)
 - periodic water chemistry
- 3b. **Data acquisition methods:** Field monitoring by Department staff. Mechanical water level recorders, Stevens rectangular and Seba and Saskatchewan Research Council Strip Charts. One transducer also used.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Alberta land location system - meridian, township, range. UTM coordinates can be provided.
- 3e. **Period of record:** 1956 to present.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Hardcopy, hard disk, diskette.
- 4b. **Database computer environment:** PC, QB 4.5.
5. **Restrictions and conditions:** None.
6. **Price information:** \$50.00 per diskette.
7. **Corresponding printed sources:** Data scenario are prepared for specific sites requested.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Hydrology; Prairies; Water quantity
11. **Additional information:** None.

Groundwater Well Data

GWW-0297-E

1. **Summary description:** All water well data appearing on a drillers report is stored (lithology, well construction and aquifer tests).
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. Joe Marciniuk, Section Head, Groundwater Information and Monitoring, Technical Services and Monitoring, Department of Environmental Protection, 14th Floor, 10405 Jasper Avenue, Edmonton, Alta. T5J 3N4
Phone: (403) 427-6188 *Facsimile:* (403) 427-1214
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - lithology parameters (colour, descriptor, material)
 - construction parameters (hole diameter, casing material and diameter, screen type, seal type, pumps installed)
 - aquifer tests (water level and rate measurement)
- 3b. **Data acquisition methods:** Most drilling reports are required under legislation.

- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Legal land location.
- 3e. **Period of record:** Have some data from before 1900.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy, microfiche, diskette.
- 4b. **Database computer environment:** PC, DBASE IV.
5. **Restrictions and conditions:** None.
6. **Price information:** \$50.00 per diskette.
7. **Corresponding printed sources:** Data printouts prepared on request.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Hydrology; Prairies; Water
11. **Additional information:** Store information described in DBASE IV type of linked files.

Harvest and Effort by Resident Big Game Hunters

HER-0118-E

1. **Summary description:** Hunting statistics of big game and bird game species by Albertans.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Ms. Sylvia G. Birkholz, Wildlife Technician, Wildlife Management, Fish and Wildlife Services, Department of Environmental Protection, 7th Floor, 6909 - 116 Street, Edmonton, Alta. T6H 4P2
Phone: (403) 422-9534 *Facsimile:* (403) 422-9685
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - hunter (numbers, days)
 - hunter harvest (males, females, young)
 - species (moose, elk, mule deer, cougar, white-tailed deer, grizzly bears, black bear, geese, ducks, uplands birds, bighorn sheep)
 - days per animal
 - license types
 - harvest dates
- 3b. **Data acquisition methods:** Questionnaires. Telephone survey following yearly hunting season.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Wildlife management units.
- 3e. **Period of record:** 1975 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, QUATTRO PRO, Q&A.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Annual reports.
8. **Languages:** English.
9. **User aids available:** Graphs, manuals on survey methods, manuals on statistical analysis, copies of questionnaires.
10. **Keywords:** Harvesting; Prairies; Wildlife
11. **Additional information:** Yearly comparisons may be made.

HELP End Landfill Pollution Data Tracking and Control System

HEL-0144-E

1. **Summary description:** An inventory of industrial landfills and plant sites for management of potentially contaminated sites.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Ms. Helen Schiebel, HELP Project Assistant, Waste Management Division, Water Resources Services, Department of Environmental Protection, 1443 - 10405 Jasper Avenue, Edmonton, Alta. T5J 3N4
Phone: (403) 427-3946 *Facsimile:* (403) 427-0413
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - company (type of operation)
 - landfill (number, licence, status)
 - location (section, township, range, west of meridian)
 - area (operated from, operated to)
 - overall comments
 - waste types
 - design and operation
- 3b. **Data acquisition methods:** Government and public survey plus industry questionnaire. Survey and questionnaire results input by Ministry staff.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Legal land description.
- 3e. **Period of record:** 1986 to 1988.
- 3f. **Update frequency:** Not applicable.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE III+.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** HELP End Landfill Pollution Data Tracking and Management System Report.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Contaminants; Disposal; Prairies
11. **Additional information:** None.

Hydrological Operations Database

HOD-0153-E

1. **Summary description:** This database provides information on water level and canal flow discharge for irrigation reservoirs in southern Alberta.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. Steve Holgate, Senior Engineer, Water Resources Headworks Branch, Department of Environmental Protection, 2nd Floor, Provincial Building, Lethbridge, Alta. T1J 4C7
Phone: (403) 381-5398 *Facsimile:* (403) 381-5337
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - canal (location, level, flow rates, discharge rates)
 - reservoir water levels
 - river flows
- 3b. **Data acquisition methods:** Observer readings, database records. Data collected by Departmental observers and records from the Departmental Data Acquisition Field Monitors (DACQ) system.
- 3c. **Geographic coverage:** Southern Alberta.

- 3d. **Geographic units of measure:** Metering stations.
- 3e. **Period of record:** 1989 to present.
- 3f. **Update frequency:** Daily during operating season (April to October).
- 4a. **Database storage format:** Hard disk, tape.
- 4b. **Database computer environment:** PC, FOXPRO.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Annual summary reports.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Hydrology; Prairies; Water
11. **Additional information:** None.

Incisor Bar Collection (Wildlife)

IBC-0117-E

1. **Summary description:** Age information on specific animals harvested.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Ms. Sylvia G. Birkholz, Wildlife Biologist, Wildlife Management, Fish and Wildlife Services, Department of Environmental Protection, 7th Floor, 6909 - 116 Street, Edmonton, Alta. T6H 4P2
Phone: (403) 422-9536 *Facsimile:* (403) 422-9685
Mr. Bruce Treichel, Wildlife Biologist
Phone: (403) 422-9535
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - species (moose, elk, mule deer, white-tailed deer, antelope, grizzly bear)
 - age class
 - harvest date
- 3b. **Data acquisition methods:** Survey. Submission of lower incisor bar by hunters.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Wildlife management units.
- 3e. **Period of record:** 1980 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, QUATTRO PRO, Q&A.
5. **Restrictions and conditions:** Certain aspects of data restricted to departmental staff.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Annual reports.
8. **Languages:** English.
9. **User aids available:** Computer print-outs, graphs.
10. **Keywords:** Biology; Mammals; Prairies
11. **Additional information:** Earlier information is primarily in hardcopy reports.

Juvenile Stand Survey (Forests)

JSS-0179-E

1. **Summary description:** The purpose of this database is to store, analyse and report on selected cut blocks in Alberta. The data are used to determine the success and future direction of reforestation projects.
- 2a. **Responsible organization:** Department of Environmental Protection

- 2b. Database contact:** Mr. Stephen McLachlin, Systems Analyst, Land and Forest Services, Department of Environmental Protection, 9920 - 108 Street, Edmonton, Alta. T5K 2M4
Phone: (403) 427-3551 *Facsimile:* (403) 427-0292
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- block (area, site, cover, treatment)
 - plot
 - crop (species, age, damage, soil)
- 3b. Data acquisition methods:** Field sampling. Departmental staff collect and enter the data.
- 3c. Geographic coverage:** Alberta.
- 3d. Geographic units of measure:** Legal land description, forest management unit.
- 3e. Period of record:** 1985 to present.
- 3f. Update frequency:** Annually.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, FOCUS.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** Various reports are produced using this system.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Forestry; North; Trees
- 11. Additional information:** None.

Land Reclamation Division Operations Database

LRD-0146-E

- 1. Summary description:** Status and information on land reclamation projects in Alberta.
- 2a. Responsible organization:** Department of Environmental Protection
- 2b. Database contact:** Ms. Iris Fedoruk, Administration Assistant, Land Reclamation, Department of Environmental Protection, 3rd Floor, 9820 - 106 Street, Edmonton, Alta. T5K 2J6
Phone: (403) 427-4147 *Facsimile:* (403) 422-8233
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- project (description, status)
 - contact person, address
 - land reclamation information (size, budget, end land use)
 - technician
- 3b. Data acquisition methods:** Reports. Information entered by Departmental staff.
- 3c. Geographic coverage:** Alberta.
- 3d. Geographic units of measure:** Municipalities, legal land description.
- 3e. Period of record:** 1976 to present.
- 3f. Update frequency:** Daily.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, DBASE.
- 5. Restrictions and conditions:** Some restrictions may apply.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** Reports can be generated on numerous topics.
- 8. Languages:** English.
- 9. User aids available:** Reference manual.
- 10. Keywords:** Contaminants; Land use; Prairies
- 11. Additional information:** None.

Land Survey Document System

LSD-0051-E

- 1. Summary description:** List of plans of surveys registered with Alberta's Land Title Office and unregistered plans submitted to Land Survey Division for approval.
- 2a. Responsible organization:** Department of Environmental Protection
- 2b. Database contact:** Mr. Ron Cote, Manager, Preservation and Maintenance, Land Survey Division, Information Resource Management Services, Department of Environmental Protection, 3rd Floor, 50 Street, 4949 - 94B Avenue, Edmonton, Alta. T6B 2T5
Phone: (403) 427-3143 *Facsimile:* (403) 427-1493
- 2c. Access mechanisms:** Through the responsible organization (see 11).
- 3a. Parameters measured:**
- land description
 - plan (number, type, plan and block affected, registration date, Alberta Land Surveyor number)
 - LSDS vault number
- 3b. Data acquisition methods:** Manual keying of submitted plans. Registered and unregistered survey plans from Land Survey Division.
- 3c. Geographic coverage:** Alberta.
- 3d. Geographic units of measure:** Quarter section and ATS legal identifiers.
- 3e. Period of record:** 1880 to present.
- 3f. Update frequency:** Continually.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** VAX 3100, RMS, POWERHOUSE, ORACLE interface.
- 5. Restrictions and conditions:** None.
- 6. Price information:** Varies according to service type (see 11).
- 7. Corresponding printed sources:** Custom reports can be generated by several criteria such as ALS number, document type, ATS, plan number, and registration date.
- 8. Languages:** English.
- 9. User aids available:** LRIS Network User's Manual; LSDS User's Manual.
- 10. Keywords:** Geography; Land use; Prairies
- 11. Additional information:**
1. Paper copies provided through Maps Alberta, \$8.00 minimum charge plus \$0.10 per plan copy.
 2. On-line access available via LRIS network, \$5.00 minimum charge plus \$0.04 cents per index record. The database name in this network is Survey Index.

Landfill Material Estimates Information

LME-0147-E

- 1. Summary description:** Provincial summary statistics on waste disposed in landfills and waste diverted (recycled)
- 2a. Responsible organization:** Department of Environmental Protection
- 2b. Database contact:** Mr. Laury North, Branch Head, Material Management Branch, Department of Environmental Protection, 5th Floor, 9820 - 106 Street, Edmonton, Alta. T5K 2J6
Phone: (403) 427-5842 *Facsimile:* (403) 422-5120
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- population
 - landfill tonnage (disposal, waste diverted)
 - regional system operating costs

- 3b. Data acquisition methods:** Reports. Information requests and grant agreement requirement (compliance) information entered by Departmental staff.
- 3c. Geographic coverage:** Alberta.
- 3d. Geographic units of measure:** Urban centres.
- 3e. Period of record:** 1988 to present.
- 3f. Update frequency:** Annually.
- 4a. Database storage format:** Hardcopy, hard disk, diskette.
- 4b. Database computer environment:** PC, WORDPERFECT.
- 5. Restrictions and conditions:** Some restrictions may apply.
- 6. Price information:** Provided upon request.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Contaminants; Disposal; Prairies
- 11. Additional information:** The database represents coverage of only 81 percent of the provincial population (areas not covered are presently prorated). In the future database coverage will be increased.

Monitor Plots (Forests)

MP-0180-E

- 1. Summary description:** The purpose of this database is to store information on the effects of various silviculture methods on stock that has been planted in cutblocks.
- 2a. Responsible organization:** Department of Environmental Protection
- 2b. Database contact:** Mr. Stephen McLachlin, Systems Analyst, Land and Forest Services, Department of Environmental Protection, 9920 - 108 Street, Edmonton, Alta. T5K 2M4
Phone: (403) 427-3551 *Facsimile:* (403) 427-0292
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- tree (plot number, measurements, species, planting method)
 - seedbed (plot number, date remeasured)
- 3b. Data acquisition methods:** Field sampling. Departmental staff collect and enter the data.
- 3c. Geographic coverage:** Alberta.
- 3d. Geographic units of measure:** Legal land description.
- 3e. Period of record:** Not applicable.
- 3f. Update frequency:** Daily.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, LOTUS 123, SPSS, SAS.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** A summary report is periodically produced. Many graphs are generated using these data.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Forestry; North; Trees
- 11. Additional information:** This information is recorded at intervals over a period of 14 years for each plot.

NAQUADAT (Water Quality)

NAQ-0029-E

- 1. Summary description:** Chemical, physical and biological data for rivers, lakes and industry/municipal effluents.
- 2a. Responsible organization:** Department of Environmental Protection

- 2b. Database contact:** Mr. Ronald Tchir, Database Administration, Technical Service Division, Department of Environmental Protection, 10th Floor, 9820 - 106 Street, Edmonton, Alta. T5K 2J6
Phone: (403) 427-6276 *Facsimile:* (403) 422-0971
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- cations, anions, metals
 - herbicides, pesticides
 - volatile, semi-volatile and extractable organic compounds
 - bacteriological data
 - algal data
 - physical parameters
- 3b. Data acquisition methods:** Automated monitors, field surveys. Rivers, lakes.
- 3c. Geographic coverage:** River basins, lakes, municipalities and industries throughout Alberta.
- 3d. Geographic units of measure:** Latitude and longitude.
- 3e. Period of record:** 1952 to present (surface water), 1985 to present (industry).
- 3f. Update frequency:** Annually.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** Mainframe and PC's, COBOL, LOTUS 123.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** Water quality assessment reports.
- 8. Languages:** English.
- 9. User aids available:** Manual available describing data collection methods and analysis.
- 10. Keywords:** Contaminants; Prairies; Water quality
- 11. Additional information:**
1. The monitoring program consists of long-term network sites, medium-term network sites, and shorter term survey sites selected for the purposes of assessing water quality in specific reaches of river basins.
 2. This database will be converted to ENVIRODAT, Environment Canada's water quality database.

Outfitter-Guide Activities

OGA-0121-E

- 1. Summary description:** Summary of non-resident hunting activities.
- 2a. Responsible organization:** Department of Environmental Protection
- 2b. Database contact:** Ms. Sylvia G. Birkholz, Wildlife Biologist, Wildlife Management, Fish and Wildlife Services, Department of Environmental Protection, 7th Floor, 6909 - 116 Street, Edmonton, Alta. T6H 4P2
Phone: (403) 422-9536 *Facsimile:* (403) 422-9685
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- non-Albertan hunters (numbers, days, harvest)
 - species (moose, elk, cougar, black bear, big horn sheep, white-tailed deer, mule deer)
 - harvest dates
 - non-resident allocations
- 3b. Data acquisition methods:** Survey. Outfitter-guide activity reports.
- 3c. Geographic coverage:** Alberta.
- 3d. Geographic units of measure:** Wildlife management unit.
- 3e. Period of record:** 1991 to present.

- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC, QUATTRO PRO, Q&A.
5. **Restrictions and conditions:** Certain aspects of data restricted to departmental staff.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Reports are primarily adhoc as requested.
8. **Languages:** English.
9. **User aids available:** Copy of activity report.
10. **Keywords:** Harvesting; Prairies; Wildlife
11. **Additional information:** None.

Permanent Sample Plot (Forests)

PSP-0173-E

1. **Summary description:** This system contains information on all aspects of tree growth within permanent sample plots. The information is used to determine and predict growth rates, canopy closure, age and yield estimates for various species of trees.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. Stephen McLachlin, Systems Analyst, Land and Forest Services, Department of Environmental Protection, 9920 - 108 Street, Edmonton, Alta. T5K 2M4
Phone: (403) 427-3551 *Facsimile:* (403) 427-0292
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - tree (plot type, date, species, measurements)
 - sample plot (location, date, history)
 - regeneration (plot number, date, location, tree species)
- 3b. **Data acquisition methods:** Field reports, other Ministry databases. Departmental staff collect and enter the data.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Latitude and longitude, section, township and range, meridian.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy, tape, hard disk, diskette.
- 4b. **Database computer environment:** Mainframe, JCL, FORTRAN, SAS. PC, DBASE III+.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Annual report produced and a variety of specialized studies are performed using these data. Data also used in developing models.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Ecology; North; Trees
11. **Additional information:**
 1. At present over 600 Permanent Sample Plots (PSP's) have been entered onto the system with each plot having 50 to 400 trees. The long term goal is to have 3,000 PSP's in the system.
 2. The microcomputer catalogue system maintains summaries of the PSP data stored on the mainframe.

Pest Management Diagnostic Services

PMD-0028-E

1. **Summary description:** Diagnostic records for insect pests, plant diseases, weeds and chemical damage to vegetation.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Dr. M. Paul Sharma, Program Manager, Biological Sciences, Alberta Environmental Sciences, Department of Environmental Protection, P.O. Bag 4000, Vegreville, Alta. T9C 1T4
Phone: (403) 632-8226 *Facsimile:* (403) 632-8379
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - insect identification
 - plant disease identification
 - weed/plant identification
 - chemical damage to vegetation diagnosis
- 3b. **Data acquisition methods:** Field investigations performed by staff. Samples relate to regulatory services and commercial production.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Individual farms, homes.
- 3e. **Period of record:** 1979 to present.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE.
5. **Restrictions and conditions:** Restricted to clients and field investigators.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Status reports are prepared for internal use of Environmental Protection and Alberta Agriculture.
8. **Languages:** English.
9. **User aids available:** Visual material collections, reference books.
10. **Keywords:** Biology; Insects; Prairies
11. **Additional information:** None.

Prescribed Burns

PB-0309-E

1. **Summary description:** The purpose of the prescribed burn system is to gather and store data related to a fire which is controlled and authorized by the Alberta Forest Service.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. Stephen McLachlin, Systems Analyst, Land and Forest Services, Department of Environmental Protection, 9920 - 108 Street, Edmonton, Alta. T5K 2M4
Phone: (403) 427-3551 *Facsimile:* (403) 427-0292
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - prescribed burn (number, location, agency, type, date, proposed size, final size, proposed costs, actual costs)
- 3b. **Data acquisition methods:** Prescribed burn data sheets. Data are entered by forestry personnel when the burn has been approved.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Location.
- 3e. **Period of record:** 1985 to present.
- 3f. **Update frequency:** Continually.

- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE IV.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Fire; Forestry; Prairies
11. **Additional information:** None.

Range System

RS-0176-E

1. **Summary description:** The purpose of this system is to assist in managing and administering range lands within Alberta to ensure that optimum productivity is achieved.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. Stephen McLachlin, Systems Analyst, Land and Forest Services, Department of Environmental Protection, 9920 - 180 Street, Edmonton, Alta. T5K 2M4
Phone: (403) 427-3551 Facsimile: (403) 427-0292
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - stock (domestic grazing animals, species)
 - vegetation (site, cover, access)
 - range inspection (date, location, condition)
 - canopy coverage (date, species)
 - basal frequency (date, indicator)
 - range usage (location, animal species)
 - grazing permit
- 3b. **Data acquisition methods:** Field reports. Departmental staff collect and enter the data.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Legal land description.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, LOTUS, DBASE IV, SPSS, SAS.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Various types of reports can be generated using this system. Information is available through Alberta government distribution centres.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Agriculture; Landscape; Prairies
11. **Additional information:** None.

Recreation Area Inventory

RAI-0174-E

1. **Summary description:** This system contains inventory and maintenance information on all Alberta Forest Service recreation facilities.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. Stephen McLachlin, Systems Analyst, Land and Forest Services, Department of Environmental Protection, 9920 - 180 Street, Edmonton, Alta. T5K 2M4
Phone: (403) 427-3551 Facsimile: (403) 427-0292

- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - recreation area (code, name, capacity)
 - location (forest district, actual location)
 - history (year built/upgraded, site plan)
 - programs (facilities)
 - fixtures, structures (site maintenance information)
- 3b. **Data acquisition methods:** Field reports. Departmental staff collect and enter the data.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Forest district, section, township, range, meridian.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** TERRACE mainframe, COBOL, JCL.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Inventory and maintenance reports can be produced by recreation area, district, forest or on a provincial level.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Prairies; Recreation; Trees
11. **Additional information:** None.

Sawmill Study Analysis

SSA-0175-E

1. **Summary description:** The purpose of this system is to collect and compile statistics on randomly sampled sawmills in Alberta. The statistics indicate the percentage breakdown and recovery efficiency of materials that are processed.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. Stephen McLachlin, Systems Analyst, Land and Forest Services, Department of Environmental Protection, 9920 - 810 Street, Edmonton, Alta. T5K 2M4
Phone: (403) 427-3551 Facsimile: (403) 427-0292
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - sample load (mill, species, condition, product)
 - log (species, measurements, condition)
 - lumber (processing, final product)
- 3b. **Data acquisition methods:** Field reports. Departmental staff collect and enter the data.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1985 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, tape, diskette.
- 4b. **Database computer environment:** TERRACE mainframe, SAS, ROSCOE. PC, LOTUS, QUATTRO.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Sawmill Study Reports are compiled and provided to participating sawmills to provide feedback on the mill's efficiency. Summary reports are also generated.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Industry; Prairies; Wood

11. Additional information:

1. System predated by the Sawmill Logscale System. From 1979 to 1985 users (mills) carried out their own studies manually.
2. Many larger sawmills perform their own recovery studies to monitor their operating efficiency. These studies are done independently of the Department and are usually not as detailed.

Silviculture Records Management System

SRM-0177-E

1. **Summary description:** The purpose of this system is to record and monitor information pertaining to areas of timber (cut blocks) that have been harvested. These areas are monitored as soon as they are cut up until they attain a status of "free to grow".
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. Stephen McLachlin, Systems Analyst, Land and Forest Services, Department of Environmental Protection, 9920 - 108 Street, Edmonton, Alta. T5K 2M4
Phone: (403) 427-3551 *Facsimile:* (403) 427-0292
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - opening (date, location, responsibility, reforestation)
 - harvesting (date, method)
 - site (cover, soil, production)
 - site preparation (date, treatment, method, cost)
 - seeding activity (date, treatment, method, cost)
 - planting activity (date, type, method, cost)
 - stand tending activity (date, type, method, cost)
 - post harvest survey activity (date, plan, cost)
 - establishment survey activity (date, stocking, cost)
 - performance survey activity (date, percent stocking, status)
 - post treatment assessment activity (date, treatment, species, cost)
 - next planting activity (date, species, cost)
 - next site preparation activity (date, method, equipment)
- 3b. **Data acquisition methods:** Field reports. Departmental staff collect and enter the data.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Legal land location.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, hard disk, diskette
- 4b. **Database computer environment:** PC, LOTUS, DBASE IV, SPSS, SAS.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Various reports are produced using this system.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Forestry; North; Trees
11. **Additional information:** None.

Stand Dynamics System

SDS-0171-E

1. **Summary description:** This system stores information collected for permanent forest stand sample plots. These plots are located in newly harvested stands and do not exceed an age of 20 years.

- 2a. **Responsible organization:** Department of Environmental Protection

- 2b. **Database contact:** Mr. Stephen McLachlin, Systems Analyst, Land and Forest Services, Department of Environmental Protection, 9920 - 108 Street, Edmonton, Alta. T5K 2M4
Phone: (403) 427-3551 *Facsimile:* (403) 427-0292

- 2c. **Access mechanisms:** Through the responsible organization.

- 3a. **Parameters measured:**
 - tree (plot type, date, species, measurements)
 - soil description
 - plot (location, date, history)
 - vegetation (plot type, date, cover)

- 3b. **Data acquisition methods:** Reports. Departmental staff collect and enter the data.

- 3c. **Geographic coverage:** Alberta.

- 3d. **Geographic units of measure:** Legal land description.

- 3e. **Period of record:** Not applicable.

- 3f. **Update frequency:** Every two years.

- 4a. **Database storage format:** Hardcopy, diskette.

- 4b. **Database computer environment:** PC, PASCAL, SAS.

5. **Restrictions and conditions:** None.

6. **Price information:** No charge.

7. **Corresponding printed sources:** None.

8. **Languages:** English.

9. **User aids available:** None.

10. **Keywords:** Forestry; North; Trees

11. **Additional information:**
 1. At present 249 plots have been entered onto the system with each plot comprised of 2,000 to 3,000 records.
 2. After the 20-year period, the plots become part of the Timber Management Permanent Sample Plot System database.

Streamflow and Water Quality

SWQ-0178-E

1. **Summary description:** This system stores streamflow and water quality data from the effects of land use on a particular watershed.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. Stephen McLachlin, Systems Analyst, Land and Forest Services, Department of Environmental Protection, 9920 - 108 Street, Edmonton, Alta. T5K 2M4
Phone: (403) 427-3551 *Facsimile:* (403) 427-0292
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - water quality sample (date, type, number)
 - streamflow (condition, stage, peak)
 - temperature (air, water)
 - precipitation
 - suspended solids
 - turbidity
 - conductivity
- 3b. **Data acquisition methods:** Field sampling (both automatic and manual). Departmental staff collect and enter the data.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Watershed.
- 3e. **Period of record:** 1984 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, hard disk, diskette.
- 4b. **Database computer environment:** PC, LOTUS.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.

7. **Corresponding printed sources:** Annual report available through Government Information Centres in Edmonton and Calgary.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Hydrology; Water quality; Watersheds
11. **Additional information:** This database is intended primarily for data storage and minimal analysis is done on the data.

Timber Damage Assessments

TDA-0020-E

1. **Summary description:** The Timber Damage Assessment system monitors assessments, invoices and revenue collected with regard to timber damage by various oil and gas companies within Alberta.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. Stephen McLachlin, Systems Analyst, Land and Forest Services, Department of Environmental Protection, 9920 - 108 Street, Edmonton, Alta. T5K 2M4
Phone: (403) 427-3551 Facsimile: (403) 427-0292
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - company name
 - program number
 - invoice (number, date, due date, amount assessed, collected, interest charged)
 - follow-up dates
- 3b. **Data acquisition methods:** Invoices are provided by the Geophysical Administrative Support System.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Alberta Township Survey (ATS).
- 3e. **Period of record:** 1990 to present.
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Invoices.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Forestry; Prairies; Trees
11. **Additional information:** None.

Timber Management Planning

TIM-0310-E

1. **Summary description:** The purpose of this system is to assist the Alberta Forest Service (AFS) in making decisions on the management and allocation of forest timber resources. The system accomplishes this by determining timber supply and the annual allowable cut (AAC) based on transactions processed against timber stand information. These transactions include area deletions, associated cover type volumes and merchantability standards.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. Stephen McLachlin, Systems Analyst, Land and Forest Services, Department of Environmental Protection, 9920 - 108 Street, Edmonton, Alta. T5K 2M4
Phone: (403) 427-3551 Facsimile: (403) 427-0292

- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - stand
 - merchantability criteria
 - volume
 - ground rule deletions
 - cover type
 - location (watershed, land base)
- 3b. **Data acquisition methods:** Database, reports. Data for TIM-PLAN is obtained directly from Alberta Forest Inventory and Storage Maintenance System (AFORISM).
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Timber stands and management areas referenced by legal land descriptions.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hard copy, diskette.
- 4b. **Database computer environment:** TERRACE mainframe, PC, LOTUS 123, WORDPERFECT, CHARTMASTER.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Timber Supply Analysis Summary Report.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Forestry; North; Wood
11. **Additional information:** None.

Timber Resource Enumeration and Evaluation System

TRE-0181-E

1. **Summary description:** The purpose of this database is to assist in the management and control of the harvesting of timber resources. This includes accounting for the volume of timber harvested and the assessments and collection of Crown Royalties and other associated charges.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. Stephen McLachlin, Systems Analyst, Land and Forest Services, Department of Environmental Protection, 9920 - 108 Street, Edmonton, Alta. T5K 2M4
Phone: (403) 427-3551 Facsimile: (403) 427-0292
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - annual operating plan (assessment, audit, charge, check scale)
 - permits (commercial timber permit, forest product permit)
 - forest management agreement
 - log (species, population, quota)
 - mill (load, timber movement, return)
 - violation
- 3b. **Data acquisition methods:** Field sampling and reports. Departmental staff integrate various internal and external reports and enter the data into the TREES database.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Forest management units.
- 3e. **Period of record:** 1982 to present.
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Hardcopy, tape, hard disk, diskette.
- 4b. **Database computer environment:** TERRACE mainframe, SAS, ROSCOE, PC, LOTUS, SPSS, DBASE III+.
5. **Restrictions and conditions:** None.

6. **Price information:** No charge.
7. **Corresponding printed sources:** Various reports are generated using this database. Reports can be specific to individual TREES subsystems.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Forestry; North; Trees
11. **Additional information:** The TREES database is functionally divided into 15 subsystems.

Trace Organic Analysis Database

TOA-0135-E

1. **Summary description:** Data on organic chemical constituents in water, effluent, soil, sediment and biota analysed for various client groups (primarily Alberta Environment Protection).
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. R. D. Smillie, Program Manager, Physical/Engineering Science, Alberta Environmental Centre, Department of Environmental Protection, Bag 4000, Vegreville, Alta. T9C 1T4
Phone: (403) 632-8433 *Facsimile:* (403) 632-8379
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - organic chemical constituents (over 400 parameters)
 - water, effluent, soil, sediment, biota and other matrices analysed
- 3b. **Data acquisition methods:** Reports. Laboratory analysis carried out by Departmental staff.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1989 to present.
- 3f. **Update frequency:** Daily.
- 4a. **Database storage format:** Tape, diskette.
- 4b. **Database computer environment:** PC, PARADOX.
5. **Restrictions and conditions:** Some restrictions may apply (see 11).
6. **Price information:** No charge.
7. **Corresponding printed sources:** Client reports.
8. **Languages:** English.
9. **User aids available:** Documentation available on use of the database.
10. **Keywords:** Chemicals; Contaminants; Prairies
11. **Additional information:**
 1. The information for the most part is available from the various user groups within Alberta Environment Protection. Sample information only is available from 1985.
 2. Restrictions on the data may be imposed by owners of the information.

Trapper Questionnaire

TQ-0113-E

1. **Summary description:** Questions concerning the presence, status and trend of 15 game and fur species.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. Robert McFetridge, Wildlife Biologist, Wildlife Management, Fish and Wildlife Services, Department of Environmental Protection, 7th Floor, 6909 - 116 Street, Edmonton, Alta. T6H 4P2
Phone: (403) 422-9536 *Facsimile:* (403) 422-9685

- 2c. **Access mechanisms:** Through the responsible organization.

3a. Parameters measured:

- species
- trend, status, presence
- trapper name
- RFMA (Registered Fur Management Area)

- 3b. **Data acquisition methods:** Field survey. Trapper questionnaire.

- 3c. **Geographic coverage:** Alberta.

- 3d. **Geographic units of measure:** RFMA.

- 3e. **Period of record:** 1987 to present.

- 3f. **Update frequency:** Annually.

- 4a. **Database storage format:** Diskette.

- 4b. **Database computer environment:** PC, DBASE.

5. **Restrictions and conditions:** None.

6. **Price information:** No charge.

7. **Corresponding printed sources:** Annual report.

8. **Languages:** English.

9. **User aids available:** None.

10. **Keywords:** Biology; Mammals; Prairies

11. **Additional information:** None.

Treated Water Survey

TWS-0330-E

1. **Summary description:** A comprehensive database on drinking water quality in all municipalities in Alberta.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. Garry Halina, Senior Technologist, Standards and Approvals Division, Department of Environmental Protection, 4th Floor, 9820 - 106 Street, Edmonton, Alta. T5K 2J6
Phone: (403) 427-5877 *Facsimile:* (403) 422-4192
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - routine inorganics and heavy metals (46 parameters)
 - volatile priority pollutants (58 parameters)
 - extractable priority pollutants (56 parameters)
 - polychlorinated biphenyls (9 parameters)
 - pesticides (77 parameters)
- 3b. **Data acquisition methods:** Field survey. Grab sample from distribution system.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Municipalities.
- 3e. **Period of record:** 1978 to present.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, PARADOX.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Annual report.
8. **Languages:** English.
9. **User aids available:** TWS manual summary.
10. **Keywords:** Human Health; Prairies; Water quality
11. **Additional information:** Data from 1978 to 1984 are available only in hardcopy.

Tri Creek Data

TRI-0312-E

1. **Summary description:** The purpose is to store data that have been collected for the Tri-Creeks Experimental Watershed Project. The data have been used as the basis for several analyses on the effects of logging on the aquatic environment.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. Stephen McLachlin, Systems Analyst, Land and Forest Services, Department of Environmental Protection, 9920 - 108 Street, Edmonton, Alta. T5K 2M4
Phone: (403) 427-3551 Facsimile: (403) 427-0292
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - relative humidity
 - air temperature
 - precipitation
 - water (quality, level, temperature)
 - biological information
 - fish (spawning patterns, movement)
- 3b. **Data acquisition methods:** Field experiments. Studies carried out by Department and other government staff.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Watershed.
- 3e. **Period of record:** 1966 to 1986.
- 3f. **Update frequency:** Not applicable.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, WORDPERFECT, LOTUS 123.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Forestry; Water quality; Watersheds
11. **Additional information:** None.

Vegetation Information System

VIS-0025-E

1. **Summary description:** This database is designed to standardize and centralize the collection and storage of vegetation information within the province of Alberta.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. Stephen McLachlin, System Analyst, Land and Forest Services, Department of Environmental Protection, 9920 - 108 Street, Edmonton, Alta. T5K 2M4
Phone: (403) 427-3551 Facsimile: (403) 427-0292
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - field plots (location, number, contents)
 - aerial photography (flight lines, photo centres, date, scale, interpretation)
 - stand (composition, age)
- 3b. **Data acquisition methods:** Aerial photograph interpretation and ground surveys. Data are collected by the Resource Information Branch or forest management agreement holders.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** UTM coordinates.
- 3e. **Period of record:** 1989 to present.

- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** DEC workstations, ARC/INFO GIS, SYBASE.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Ecology; Geographic Information System; Prairies; Trees
11. **Additional information:** None.

Water Laboratory Information Management System

WAT-0037-E

1. **Summary description:** Chemical analysis for water samples collected in Alberta. Most samples have legal land references.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Dr. R. S. McDaniel, Head, Data Management, Physical and Engineering Sciences, Alberta Environmental Centre, Department of Environmental Protection, P.O. Bag 4000, Vegreville, Alta. T9C 1T4
Phone: (403) 632-8495 Facsimile: (403) 632-8379
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - sample identification, location
 - analysis information (Pb, Zn, Hg, ammonia)
 - test methods
- 3b. **Data acquisition methods:** Laboratory instrumentation (direct transfer/manual input). Water samples taken from many sources: wells, streams, lakes.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Legal land description.
- 3e. **Period of record:** 1987 to present.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hard disk. Data not distributed, may be accessed on-line.
- 4b. **Database computer environment:** PC LAN, VAX server, PANTHWORKS/OPEN, VMS/RdB.
5. **Restrictions and conditions:** Access is being reviewed on a departmental basis.
6. **Price information:** Under review.
7. **Corresponding printed sources:** Several standard printed reports.
8. **Languages:** English.
9. **User aids available:** Screen directed with pop-up help as required.
10. **Keywords:** Hydrology; Prairies; Water
11. **Additional information:**
 1. This system was developed in-house on a VAX server/PC LAN platform using RdB as the database. PASCAL/SQL is the implementation language.
 2. The database currently has 70,000 samples and 1 million analytical parameters on-line.

Water Rights Information System

WRI-0061-E

1. **Summary description:** This database contains all administrative and technical data for water diversion projects licensed under the Water Resources Act for consumptive water uses such as surface/ground water withdrawals and diversions.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. Stephen Yeung, Water Rights Engineer, Water Resources Administration Division, Department of Environmental Protection, 2nd Floor, 9820 - 106 Street, Oxbridge Place, Edmonton, Alta. T5K 2J6
Phone: (403) 427-6241 Facsimile: (403) 422-3572
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - licensee (address, telephone number)
 - location (ATS, WSC drainage basin, NTS map code)
 - sources (water supply, production zone)
 - quantity of water allocated in acre/feet
 - pumping rate in cubic feet/second
 - date (licence authorization, cancellation, expiry)
 - purpose (irrigation, industrial, municipal, agricultural)
 - dam height
 - storage capacity
 - irrigable area
- 3b. **Data acquisition methods:** Plans, reports. Permits issued under the Water Resources Act.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** The licenses are referenced by ATS, WSC drainage basin code, NTS map code and the affected water course.
- 3e. **Period of record:** 1880 to present.
- 3f. **Update frequency:** Daily.
- 4a. **Database storage format:** Hardcopy, tape, diskette.
- 4b. **Database computer environment:** Mainframe, ADABAS, SUPERNATURAL. PC, DBASE IV, FOXPRO, PARADOX.
5. **Restrictions and conditions:** Database access by departmental staff only.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Different reports can be generated from this database as requested.
8. **Languages:** English.
9. **User aids available:** WRIS Manual.
10. **Keywords:** Extraction; Hydrology; Prairies
11. **Additional information:** None.

Water Rights Information System (Permit)

WRI-0060-E

1. **Summary description:** This database contains information on permits issued under the Water Resources Act for non-consumptive water use such as pipeline crossings and erosion control.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. Stephen Yeung, Water Rights Engineer, Water Resources Administration Division, Department of Environmental Protection, 2nd Floor, 9820 - 106 Street, Oxbridge Place, Edmonton, Alta. T5K 2J6
Phone: (403) 427-6241 Facsimile: (403) 422-3572
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - company name

- location (ATS, WSC basin, PFRA, water resources administrative region)
 - source (river, lakes, streams)
 - purpose (drainage, pipeline crossing)
 - date (approval, expiry, cancellation)
- 3b. **Data acquisition methods:** Plans, reports. Permits issued under the Water Resources Act.
 - 3c. **Geographic coverage:** Alberta.
 - 3d. **Geographic units of measure:** The permits are referenced by Alberta Township System (ATS) and the affected water course.
 - 3e. **Period of record:** 1919 to present.
 - 3f. **Update frequency:** Daily.
 - 4a. **Database storage format:** Hardcopy, tape, diskette.
 - 4b. **Database computer environment:** Mainframe, PC, DBASE IV.
 5. **Restrictions and conditions:** Database access by departmental staff only.
 6. **Price information:** No charge.
 7. **Corresponding printed sources:** Reports can be generated from this database as requested.
 8. **Languages:** English.
 9. **User aids available:** None.
 10. **Keywords:** Hydrology; Prairies; Water
 11. **Additional information:** None.

Water Use Information System

WUI-0137-E

1. **Summary description:** Contains municipal, industrial and agricultural water use data by legal land description and has the ability to aggregate, analyse and plot data by watershed.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Mr. John Thompson, Head, Economics and Water Use Section, Planning Division, Department of Environmental Protection, 9th Floor, 9820 - 106 Street, Edmonton, Alta. T5K 2J6
Phone: (403) 427-8995 Facsimile: (403) 422-4190
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - industries, communities, irrigation districts (monthly water diversion, return flow statistics)
 - water used for power production
 - water use estimates (populations, per capita)
- 3b. **Data acquisition methods:** Reports, databases, surveys. Manual collection and input of data from paper files. Database input via computer link.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Legal land description, watershed, drainage basin, latitude and longitude.
- 3e. **Period of record:** 1962 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hard disk, diskette.
- 4b. **Database computer environment:** Mainframe, ADABASE NATURAL.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Various government reports dealing with water use.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Hydrology; Prairies; Water
11. **Additional information:** None.

Wildlife Export Permits

WEP-0120-E

1. **Summary description:** Listing of wildlife products leaving Alberta.
- 2a. **Responsible organization:** Department of Environmental Protection
- 2b. **Database contact:** Ms. Sylvia G. Birkholz, Wildlife Technician, Wildlife Management, Fish and Wildlife Services, Department of Environmental Protection, 7th Floor, 6909 - 116 Street, Edmonton, Alta. T6H 4P2
Phone: (403) 422-9534 Facsimile: (403) 422-9685
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - exporter
 - destination (person, place)
 - item of export (species, number, type)
 - export (license, type, date)
 - antler velvet weights
- 3b. **Data acquisition methods:** Survey. Export permit document.
- 3c. **Geographic coverage:** Alberta.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1987 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC, Q&A.
5. **Restrictions and conditions:** Certain aspects of data restricted to departmental staff.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Reports are currently ad-hoc. Permanent reports presently in production.
8. **Languages:** English.
9. **User aids available:** Copy of export permit.
10. **Keywords:** Harvesting; Prairies; Wildlife
11. **Additional information:** Database is currently being updated back to 1964.



Energy Resources Conservation Board

Environment Information System

EIS-0149-E

1. **Summary description:** This database captures pipeline and non-pipeline releases of potentially harmful substances into the environment.
- 2a. **Responsible organization:** Energy Resources Conservation Board
- 2b. **Database contact:** Information Services Department, Energy Resources Conservation Board, 640 - 5 Avenue Southwest, Calgary, Alta. T2P 3G4
Phone: (403) 297-8311 Facsimile: (403) 297-7040
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - event (location, date, source, cause, injuries or deaths)
 - ERCB area office, field
 - operator or licensee
 - pipeline (licence number, line number, leak or rupture)

- types and volumes of release (gas, water-based material, hydrocarbons)
 - clean-up dates
 - complaints (noise, odour, smoke)
- 3b. **Data acquisition methods:** Site inspection report. Data is captured by Area Office Inspectors who fill out a report of the event on site.
 - 3c. **Geographic coverage:** Alberta.
 - 3d. **Geographic units of measure:** Dominion land survey system (legal land location or township and range).
 - 3e. **Period of record:** 1975 to present.
 - 3f. **Update frequency:** Weekly.
 - 4a. **Database storage format:** Microfiche, tape.
 - 4b. **Database computer environment:** Mainframe, custom software.
 5. **Restrictions and conditions:** None.
 6. **Price information:** Various costing arrangements subject to change (see 11).
 7. **Corresponding printed sources:** Cumulative data reports are printed monthly.
 8. **Languages:** English.
 9. **User aids available:** Code table.
 10. **Keywords:** Contaminants; Pollution; Prairies
 11. **Additional information:**
 1. The ERCB's EIS is currently being revised, the new system is scheduled for availability in summer, 1994.
 2. Effective January 1, 1993 (subject to change) pricing was: annual subscription, \$200.00; single issue, \$125.00; by location, a pull and copy charge; viewing, no charge.

BRITISH COLUMBIA



BC Ferries

Executive Network Information System

ENI-0527-E

1. **Summary description:** Summary data for major ferry routes.
- 2a. **Responsible organization:** BC Ferries
- 2b. **Database contact:** Mr. Gordon Spink, Manager, Information Systems, BC Ferries, 1112 Fort Street, Victoria, B.C. V8V 1X4
Phone: (604) 381-1401 *Facsimile:* (604) 388-7481
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - vehicles (by number, type)
 - major ferry routes
- 3b. **Data acquisition methods:** Monitoring. Ferry cash registers.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1991 to present. Three years of data.
- 3f. **Update frequency:** Daily.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** IBM mainframe, ORACLE.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Pacific; Transportation; Vehicles;
11. **Additional information:** A Traffic Statistics System (TSS) is in the prototype stage and is designed to capture minute-by-minute transactions on all major ferry routes.

Micro Traffic System

MTS-0528-E

1. **Summary description:** Records the number of vehicles by sailing on all major ferry routes.
- 2a. **Responsible organization:** BC Ferries
- 2b. **Database contact:** Mr. Len Roueche, Manager, Planning Research, BC Ferries, 1112 Fort Street, Victoria, B.C. V8V 1X4
Phone: (604) 381-1401 *Facsimile:* (604) 388-7481
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - vehicles (type)
 - major ferry routes for all 12 months of the year
 - minor ferry routes for October, March and August
- 3b. **Data acquisition methods:** Monitoring. Ship's logs and cash registers.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1982 to present. Three years of data.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Hardcopy.

- 4b. **Database computer environment:** PC, APL.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Pacific; Transportation; Vehicles
11. **Additional information:** None.



Ministry of Agriculture, Fisheries and Food

Agricultural Statistics

AGS-0472-E

1. **Summary description:** To disseminate, in text format, statistics and analysis relevant to British Columbia agriculture, fisheries and food industries.
- 2a. **Responsible organization:** Ministry of Agriculture, Fisheries and Food
- 2b. **Database contact:** Ms. Ruth Elkinton, Agricultural Statistics Coordinator, Statistics Unit, Public Affairs, Ministry of Agriculture, Fisheries and Food, 808 Douglas Street, Victoria, B.C. V8W 2Z7
Phone: (604) 387-7169 *Facsimile:* (604) 387-9105
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - current applicable statistics from all government sources
- 3b. **Data acquisition methods:** Monitoring. Government publications (including marketing boards).
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Census districts.
- 3e. **Period of record:** 1985 to present.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** VAX.
5. **Restrictions and conditions:** None.
6. **Price information:** None.
7. **Corresponding printed sources:** Annual statistical reports.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Pacific; Agriculture; Fisheries
11. **Additional information:** None.

Annual Fisheries Production

ANN-0145-E

1. **Summary description:** Finished seafood products by product type, species, weight and wholesale value.
- 2a. **Responsible organization:** Ministry of Agriculture, Fisheries and Food
- 2b. **Database contact:** Ms. Carmen Matthews, Fisheries Statistics Officer, Aquaculture and Commercial Fisheries Branch, Ministry of Agriculture, Fisheries and Food, 808 Douglas Street, Victoria, B.C. V8W 2Z7
Phone: (604) 387-1160 *Facsimile:* (604) 356-7280
- 2c. **Access mechanisms:** Through the responsible organization.

3a. Parameters measured:

- company name
- species
- product type (frozen fillets)
- product weight
- wholesale value

3b. Data acquisition methods: Reports, survey. British Columbia Annual Fisheries Production Schedule. Census of all licensed seafood processors and buyers in British Columbia.

3c. Geographic coverage: British Columbia.

3d. Geographic units of measure: Processing regions.

3e. Period of record: 1982 to 1992.

3f. Update frequency: Annually.

4a. Database storage format: Hardcopy.

4b. Database computer environment: PC.

5. Restrictions and conditions: No individual company data released.

6. Price information: \$15.00 per file or \$50.00 per hour, plus GST.

7. Corresponding printed sources: Annual Fisheries Productions Statistics of British Columbia.

8. Languages: English.

9. User aids available: None.

10. Keywords: Fish; Industry; Pacific

11. Additional information: None.

Application Entry (Agriculture)

AEA-0473-E

1. Summary description: To provide records of applications for changes to Agricultural Land Reserves.

2a. Responsible organization: Ministry of Agriculture, Fisheries and Food

2b. Database contact: Mr. Evert Lew, Administration Officer, Agriculture Land Commission, Ministry of Agriculture, Fisheries and Food, Suite 133, 4940 Canada Way, Burnaby, B.C. V5G 4K6

Phone: (604) 660-7012 *Facsimile:* (604) 660-7033

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- name of applicant
- application (date, type)
- municipality
- regional district

3b. Data acquisition methods: Applications. Data input by departmental staff.

3c. Geographic coverage: British Columbia.

3d. Geographic units of measure: Municipality.

3e. Period of record: 1992 to present.

3f. Update frequency: Daily.

4a. Database storage format: Hardcopy, diskette.

4b. Database computer environment: PC, DBASE.

5. Restrictions and conditions: None.

6. Price information: None.

7. Corresponding printed sources: Annual statistical report.

8. Languages: English.

9. User aids available: None.

10. Keywords: Pacific; Agriculture; Regulation

11. Additional information: None.

Aquaculture Licensing and Referral Administration System

ALR-0144-E

1. Summary description: All aquaculture operations in British Columbia with proposed production levels by species as well as actual annual harvest data.

2a. Responsible organization: Ministry of Agriculture, Fisheries and Food

2b. Database contact: Licensing Officer, Aquaculture, Commercial Fisheries Branch, Ministry of Agriculture, Fisheries and Food, 2500 Cliffe Avenue, Courtenay, B.C. V9N 5M6

Phone: (604) 334-1400 *Facsimile:* (604) 334-1410

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- site information (location, size)
- farm information (species, production levels)
- sales statistics (annual harvest)
- company (contacts, addresses)
- administration of licensing (fees paid, refunds, balance)

3b. Data acquisition methods: Harvest information collected by annual census of license holders. Annual Aquaculture Statistical Report. All other data by correspondence (applications, MELP letters, staff site visits).

3c. Geographic coverage: British Columbia.

3d. Geographic units of measure: DFO statistical areas and sub-areas, MELP management units and sub-units.

3e. Period of record: 1990 to 1993. Stop date: 1992 for harvesting information, 1993 for licensing data and future production.

3f. Update frequency: Ongoing/daily for current licenses.

4a. Database storage format: Hardcopy.

4b. Database computer environment: VAX.

5. Restrictions and conditions: No individual company data distributed.

6. Price information: Pay in advance: \$15.00 per file, \$50.00 per hour, plus GST.

7. Corresponding printed sources: British Columbia Aquaculture Management Information System. Annual Aquaculture Statistical Report. Fisheries Production Statistics of British Columbia.

8. Languages: English.

9. User aids available: None.

10. Keywords: Aquaculture; Fish; Pacific

11. Additional information: Ministry of Environment, Lands and Parks is responsible for lease or license of occupation on Crown Lands; the legal description, hectares, and company information is derived from there.

Coastal Data Set Inventory

CDS-0471-E

1. Summary description: To identify and record all data sets of relevance to the coastal zone in British Columbia (107 data sets recorded).

2a. Responsible organization: Ministry of Agriculture, Fisheries and Food

2b. Database contact: Mr. Joe Truscott, Chief, Resource Analysis and Planning, Aquaculture, Commercial Fisheries Branch, Ministry of Agriculture, Fisheries and Food, 808 Douglas Street, Victoria, B.C. V8W 2Z7

Phone: (604) 356-9570 *Facsimile:* (604) 356-7280

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- environmental protection and monitoring
- fisheries management
- physical baseline information
- wildlife management

3b. Data acquisition methods: Survey. Interviews and questionnaires.

3c. Geographic coverage: British Columbia.

3d. Geographic units of measure: Not applicable.

3e. Period of record: 1993 to present.

3f. Update frequency: Not applicable.

4a. Database storage format: Hardcopy, diskette.

4b. Database computer environment: PC, DBASE.

5. Restrictions and conditions: None.

6. Price information: None.

7. Corresponding printed sources: Coastal Information Resource Inventory.

8. Languages: English.

9. User aids available: None.

10. Keywords: Pacific; Environmental Science; Biodiversity

11. Additional information: This inventory provides access to a wide variety of databases relevant to coastal resources.

Commercial Fish Licensing System

CFL-0143-E

1. Summary description: Contains records of seafood processors, buyers and fishermen vendors; applications, licenses and inspection records.

2a. Responsible organization: Ministry of Agriculture, Fisheries and Food

2b. Database contact: Licensing Officer, Aquaculture and Commercial Fisheries Branch, Ministry of Agriculture, Fisheries and Food, 2500 Cliffe Avenue, Courtenay, B.C. V9N 5M6

Phone: (604) 334-1400 *Facsimile:* (604) 334-1410

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- operation (type, location, operator, inspection information)

3b. Data acquisition methods: Application forms, site visits, inspections, correspondence. Application for Fish Buying Station License, application for Fish or Marine Plant Processing or Cold Storage License.

3c. Geographic coverage: British Columbia.

3d. Geographic units of measure: Fisheries and Ocean Statistical area and sub-area.

3e. Period of record: 1990 to 1993.

3f. Update frequency: Ongoing/daily for current year.

4a. Database storage format: Hardcopy.

4b. Database computer environment: VAX, PC.

5. Restrictions and conditions: None.

6. Price information: Pay in advance: \$15.00 per file, \$50.00 per hour, plus GST.

7. Corresponding printed sources: License information in Fisheries Production Statistics of British Columbia.

8. Languages: English.

9. User aids available: None.

10. Keywords: Fish; Fisheries; Pacific

11. Additional information: None.



Ministry of Energy, Mines and Petroleum Resources

Assessment Report Indexing System

ARI-0130-E

1. Summary description: ARIS is a relational database that is an index and an administrative tracking system to the Geological Survey Branch's Mineral Assessment Report library of more than 22,000 reports.

2a. Responsible organization: Ministry of Energy, Mines and Petroleum Resources

2b. Database contact: Ms. Laura de Groot, Database Manager, Geoscience Information System, Ministry of Energy, Mines and Petroleum Resources, 5th Floor, 1810 Blanshard Street, Victoria, B.C. V8V 1X4

Phone: (604) 952-0387 *Facsimile:* (604) 952-0381

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- assessment reports
- mineral deposits
- ownership (operator, location)
- bibliography
- exploration results

3b. Data acquisition methods: Reports. Legislated submissions by companies pertaining to the Mineral Act Regulations.

3c. Geographic coverage: British Columbia.

3d. Geographic units of measure: Longitude and latitude, UTM coordinates.

3e. Period of record: 1947 to present. Ongoing.

3f. Update frequency: Daily.

4a. Database storage format: Hardcopy, microfiche, diskette.

4b. Database computer environment: VAX 8650, VMS, SUPRA, CARIS GIS, PC.

5. Restrictions and conditions: Partly restricted. Non-confidential data open to the public.

6. Price information: Index diskettes \$50.00 per set.

7. Corresponding printed sources: CARIS GIS maps.

8. Languages: English.

9. User aids available: CARIS User's Manual.

10. Keywords: Geographic Information System; Geology; Minerals; Pacific

11. Additional information: A group of fields are extracted to diskettes for each assessment report in a group of 8 ASCII files. This data may be used on the PC within database management and mapping software.

BC Coalfile

COA-0131-E

1. Summary description: COALFILE contains summarized coal assessment reports, submitted by exploration companies in compliance with the Coal Act.

2a. Responsible organization: Ministry of Energy, Mines and Petroleum Resources

2b. Database contact: Mr. Larry Jones, Senior Geologist - MINFILE, Geoscience Information Section, Ministry of Energy, Mines

and Petroleum Resources, 5th Floor, 1810 Blanshard Street, Victoria, B.C. V8V 1X4

Phone: (604) 952-0386 Facsimile: (604) 952-0381

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- summary data in coal assessment reports
- map information
- trench data
- borehole data
- adit or pit data
- exploration data

3b. Data acquisition methods: Compilation of reports on coal occurrences, geophysical and drillers logs.

3c. Geographic coverage: British Columbia.

3d. Geographic units of measure: UTM coordinates.

3e. Period of record: 1900 to present. Coal reports submitted annually.

3f. Update frequency: Irregular.

4a. Database storage format: Diskette.

4b. Database computer environment: PC, DBASE.

5. Restrictions and conditions: None.

6. Price information: \$25.00 per request.

7. Corresponding printed sources: None.

8. Languages: English.

9. User aids available: None.

10. Keywords: Coal; Geology; Pacific

11. Additional information:

1. Distribution policy and administration of the database is currently being established.

2. There is a three-year confidential period for coal exploration assessment reports; only non-confidential information is publicly available.

BC Geological Field and Analytical Data

GSB-0134-E

1. Summary description: Relational files contain field stations with location and geological data.

2a. Responsible organization: Ministry of Energy, Mines and Petroleum Resources

2b. Database contact: Mr. Don MacIntyre, Geologist, Mapping Section, Ministry of Energy, Mines and Petroleum Resources, 5th Floor, 1810 Blanshard Street, Victoria, B.C. V8V 1X4

Phone: (604) 952-0440 Facsimile: (604) 952-0381

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- structural geology (rock types, mineralization, fossils, age dates)
- alteration
- geochemistry

3b. Data acquisition methods: Field sampling, geological mapping.

3c. Geographic coverage: British Columbia.

3d. Geographic units of measure: UTM coordinates.

3e. Period of record: 1986 to present. Ongoing.

3f. Update frequency: Irregular.

4a. Database storage format: Diskette.

4b. Database computer environment: PC, DBASE and custom software.

5. Restrictions and conditions: Non-confidential information open to the public.

6. Price information: On request.

7. Corresponding printed sources: Open files, maps.

8. Languages: English.

9. User aids available: Digital User's Notes.

10. Keywords: Geographic Information System; Minerals; Pacific

11. Additional information: None.

BC MINFILE

BCM-0129-E

1. Summary description: MINFILE contains over 11,000 metallic, industrial, mineral and coal occurrences for British Columbia. The database is used by government, industry and academia for resource management, land-use planning, exploration and research.

2a. Responsible organization: Ministry of Energy, Mines and Petroleum Resources

2b. Database contact: Ms. Cindy McPeck, Database Manager, Geoscience Information Section, Ministry of Energy, Mines and Petroleum Resources, 5th Floor, 1810 Blanshard Street, Victoria, B.C. V8V 1X4

Phone: (604) 952-0387 Facsimile: (604) 952-0381

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- minerals (industrial, metallic, deposits, location)
- coal
- geology (rock types, reserves, tectonic belt, location)
- production
- bibliography

3b. Data acquisition methods: Research, field work, compilation, surveys. Maps, personal visits.

3c. Geographic coverage: British Columbia.

3d. Geographic units of measure: Longitude and latitude, UTM coordinates.

3e. Period of record: 1967 to present. Ongoing.

3f. Update frequency: Daily.

4a. Database storage format: Hardcopy maps, microfiche, diskette.

4b. Database computer environment: PC, DBASE, MINFILE/PC.

5. Restrictions and conditions: None.

6. Price information: \$5.00 per disk.

7. Corresponding printed sources: MINFILE publications, MINFILE maps, open files.

8. Languages: English.

9. User aids available: MINFILE Coding Manual (1992). MINFILE User's Manual (1992).

10. Keywords: Geographic Information System; Minerals; Pacific

11. Additional information:

1. MINFILE/PC 3.0 is an IBM compatible, menu-driven program consisting of search, report and data-entry modules. MINFILE data are distributed in ASCII files which are configured into indexed database (DBASE) files.

2. PROPERTY FILE, a hard-copy back-up to MINFILE, consists of original source material.

BC NTS Bibliographic Index

NTS-0132-E

1. Summary description: Bibliography of British Columbia Geological Survey Publications.

2a. Responsible organization: Ministry of Energy, Mines and Petroleum Resources

2b. Database contact: Mr. Brian Grant, Senior Editor, Scientific Review, Ministry of Energy, Mines and Petroleum Resources, 4th Floor, 1810 Blanshard Street, Victoria, B.C. V8V 1X4

Phone: (604) 952-0454 Facsimile: (604) 952-0451

- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- location (map area (NTS))
 - bibliography (author, title)
 - geoscience information
 - earth science information
- 3b. Data acquisition methods:** Index compilation by departmental staff.
- 3c. Geographic coverage:** British Columbia.
- 3d. Geographic units of measure:** NTS mapsheets.
- 3e. Period of record:** 1890 to present. Ongoing.
- 3f. Update frequency:** Irregular.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, DBASE.
- 5. Restrictions and conditions:** Digital-internal use.
- 6. Price information:** No charge for hard-copy.
- 7. Corresponding printed sources:** Information circulars, bulletins, papers, open file maps and reports.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Geology; Minerals; Pacific
- 11. Additional information:** None.

BC Regional Geochemical Survey

BCR-0133-E

- 1. Summary description:** RGS database containing multi-element analytical determinations, sample location information, bedrock associations and field observations of over 38,000 stream sediment and water samples in British Columbia.
- 2a. Responsible organization:** Ministry of Energy, Mines and Petroleum Resources
- 2b. Database contact:** Mr. Wayne Jachaman, Research Officer, Environmental Geology Section, Ministry of Energy, Mines and Petroleum Resources, 5th Floor, 1810 Blanshard Street, Victoria, B.C. V8V 1X4
Phone: (604) 952-0398 *Facsimile:* (604) 952-0381
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- geochemistry (waters, sediments, elemental values)
 - location
 - rock type
 - stream parameters
- 3b. Data acquisition methods:** Field collection, lab analysis. Soil, water and stream sediment samples.
- 3c. Geographic coverage:** Approximately 33,000 sites across British Columbia.
- 3d. Geographic units of measure:** UTM coordinates.
- 3e. Period of record:** 1976 to present. Ongoing.
- 3f. Update frequency:** Annual.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** Macintosh, PC.
- 5. Restrictions and conditions:** None.
- 6. Price information:** Hard-copy: \$100.00 per map area. Disks: \$10.00 per map area.
- 7. Corresponding printed sources:** Various articles.
- 8. Languages:** English.
- 9. User aids available:** Data Packages: RGS Data Booklet, RGS Map Booklet.
- 10. Keywords:** Geochemistry; Geographic Information System; Pacific
- 11. Additional information:** Uses of data include exploration and development, geochemical trends, metallurgical studies, evalua-

te mineral potential, resource management, land-use planning and environmental assessments.

Database Acid Rock Drainage

DBA-0474-E

- 1. Summary description:** To record acid rock drainage prediction data, including information on mine mineralogy and waste characteristics.
- 2a. Responsible organization:** Ministry of Energy, Mines and Petroleum Resources
- 2b. Database contact:** Mr. John Errington, Manager, Reclamation and Permitting, Mine Review and Permit Branch, Ministry of Energy, Mines and Petroleum Resources, 1810 Blanshard Street, Victoria, B.C. V8V 1X4
Phone: (604) 952-0470 *Facsimile:* (604) 952-0481
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- mine location
 - waste components
 - metal contents
 - mineralogy
 - static test data
 - kinetic test data
- 3b. Data acquisition methods:** Monitoring. Data collected from public documents submitted by mining companies as part of the permit process.
- 3c. Geographic coverage:** British Columbia.
- 3d. Geographic units of measure:** Municipality.
- 3e. Period of record:** 1993 to present.
- 3f. Update frequency:** Irregular.
- 4a. Database storage format:** Diskette.
- 4b. Database computer environment:** PC.
- 5. Restrictions and conditions:** Some restrictions apply.
- 6. Price information:** A charge may apply.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Pacific; Waste; Hydrology
- 11. Additional information:** None.

Mine Development Assessment Process Project Database

MDA-0475-E

- 1. Summary description:** To record mining projects that enter the mine development assessment process and track the status of their reviews.
- 2a. Responsible organization:** Ministry of Energy, Mines and Petroleum Resources
- 2b. Database contact:** Ms. Jo Harris, Public Involvement Coordinator, Mine Review and Permit Branch, Ministry of Energy, Mines and Petroleum Resources, 4th Floor, 1810 Blanshard Street, Victoria, B.C. V8V 1X4
Phone: (604) 952-0476 *Facsimile:* (604) 952-0481
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- mine (location, commodity mined, proponents name)
 - date (of application, approvals)
- 3b. Data acquisition methods:** Monitoring. Data collected from applications submitted.
- 3c. Geographic coverage:** British Columbia.
- 3d. Geographic units of measure:** Municipality.

- 3e. **Period of record:** 1976 to present.
- 3f. **Update frequency:** As applications arrive.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** PC, FOXPRO.
- 5. **Restrictions and conditions:** None.
- 6. **Price information:** None.
- 7. **Corresponding printed sources:** None.
- 8. **Languages:** English.
- 9. **User aids available:** None.
- 10. **Keywords:** Pacific; Mining; Regulation
- 11. **Additional information:** None.

Mine Waste Rock Dump Monitoring Database

MWR-0478-E

- 1. **Summary description:** Database stores information on monitoring data available for waste rock dumps worldwide.
- 2a. **Responsible organization:** Ministry of Energy, Mines and Petroleum Resources
- 2b. **Database contact:** Mr. Rick Lawrence, Chair, Mining Environment, Department of Mining and Mineral Processing, University of British Columbia, 6350 Stores Road, Vancouver, B.C. V6T 1Z4
Phone: (604) 822-6781 Facsimile: (604) 822-5599
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - detailed mine information (location, climate)
 - waste rock dump details (size, hydrology, mineralogy)
 - monitoring program details (data availability, access)
- 3b. **Data acquisition methods:** Monitoring. Questionnaires to Mines and information from other databases.
- 3c. **Geographic coverage:** Worldwide, specifically Canada, United States, Sweden, Norway, Australia.
- 3d. **Geographic units of measure:** Municipality.
- 3e. **Period of record:** 1993 to present.
- 3f. **Update frequency:** Depends on funding.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC.
- 5. **Restrictions and conditions:** None.
- 6. **Price information:** A charge may apply.
- 7. **Corresponding printed sources:** None.
- 8. **Languages:** English.
- 9. **User aids available:** None.
- 10. **Keywords:** Pacific; Mining; Waste
- 11. **Additional information:** Summary data will be widely available on INTERNET sometime in 1994.

Notice and Completion of Work (Minerals)

NOW-0151-E

- 1. **Summary description:** Collects Notice of Work Information for sand, gravel, quarry, mineral and coal exploration work. Upon completion of work, collects information on reclamation and surface disturbance.
- 2a. **Responsible organization:** Ministry of Energy, Mines and Petroleum Resources
- 2b. **Database contact:** Ms. Sophia Collier, Manager, Information Systems, Mineral Resources Division, Ministry of Energy, Mines and Petroleum Resources, 4th Floor, 1810 Blanshard Street, Victoria, B.C. V8V 1X4
Phone: (604) 952-0467 Facsimile: (604) 952-0481
- 2c. **Access mechanisms:** Through the responsible organization.

- 3a. **Parameters measured:**
 - exploration work (sand, gravel, quarry, mineral, coal)
 - amount of disturbance
 - type of work being done
 - reclamation of land
- 3b. **Data acquisition methods:** Work notices. Data input by Ministry staff.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Latitude and longitude, NTS map sheet number.
- 3e. **Period of record:** 1991 to 1993.
- 3f. **Update frequency:** Monthly at provincial level, daily at regional level.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC.
- 5. **Restrictions and conditions:** Some data may be restricted.
- 6. **Price information:** No charge at present.
- 7. **Corresponding printed sources:** Internal documents: British Columbia Quarterly Mineral Market Update. In-house Quarterly Statistics.
- 8. **Languages:** English.
- 9. **User aids available:** User documentation; appendix displaying fields used and description of each field.
- 10. **Keywords:** Exploration; Geology; Pacific
- 11. **Additional information:** None.

Petroleum Information Management System

PIM-0476-E

- 1. **Summary description:** To collect well and oil and gas production data.
- 2a. **Responsible organization:** Ministry of Energy, Mines and Petroleum Resources
- 2b. **Database contact:** Mr. Bruce Hanwell, Director, Petroleum Engineering and Operations Branch, Energy Resources Division, Ministry of Energy, Mines and Petroleum Resources, 4th Floor, 617 Government Street, Victoria, B.C. V8V 1X4
Phone: (604) 952-0304 Facsimile: (604) 952-0291
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - well (oil/gas/other type, location, depth)
 - productive horizon
 - geological horizon
 - production history
- 3b. **Data acquisition methods:** Monitoring. Data collected from industrial records.
- 3c. **Geographic coverage:** Northeast British Columbia.
- 3d. **Geographic units of measure:** Spacing units: 160 acres per oil well; 640 acres per gas well.
- 3e. **Period of record:** 1985 to present.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy, diskettes, tapes.
- 4b. **Database computer environment:** Micro-VAX, RDB/POWERHOUSE.
- 5. **Restrictions and conditions:** Some information is confidential.
- 6. **Price information:** Some charges may apply.
- 7. **Corresponding printed sources:** Reports are available.
- 8. **Languages:** English.
- 9. **User aids available:** None.
- 10. **Keywords:** Pacific; Energy; Extraction

11. **Additional information:** This database (PIMS) is currently being created from the Petroleum and Natural Gas (PANG) database.

Petroleum Titles System

PTS-0477-E

1. **Summary description:** To manage information in all provincial petroleum, natural gas and geothermal resource tenures.
- 2a. **Responsible organization:** Ministry of Energy, Mines and Petroleum Resources
- 2b. **Database contact:** Mr. Colin Magee, Manager, Land Administration, Petroleum Titles Branch, Ministry of Energy, Mines and Petroleum Resources, 4th Floor, 617 Government Street, Victoria, B.C. V8V 1X4
Phone: (604) 952-0335 Facsimile: (604) 952-0331
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - geographic location of oil and gas tenure
 - geological rights (to whom the rights are conveyed)
- 3b. **Data acquisition methods:** Monitoring. Data collected from applications.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Petroleum and natural gas grid - smallest average unit of 70 hectares.
- 3e. **Period of record:** 1983 to present.
- 3f. **Update frequency:** Daily.
- 4a. **Database storage format:** Tapes.
- 4b. **Database computer environment:** VAX, VMS, RDB/POWE-RHOUSE.
5. **Restrictions and conditions:** None.
6. **Price information:** Some charges may apply.
7. **Corresponding printed sources:** Drilling and Land Report is published monthly.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Pacific; Energy; Extraction
11. **Additional information:** None.



Ministry of Environment, Lands and Parks

Aerial Wildlife Survey Database

AWS-0499-E

1. **Summary description:** Database records the abundance and distribution of wildlife species (mainly ungulates).
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Andy Stewart, Habitat Inventory Section, Wildlife Branch, Ministry of Environment, Lands and Parks, 780 Blanshard Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-9780 Facsimile: (604) 356-9145
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - species observed (95 percent ungulates)
 - number

- ground winter survey (track abundance, flight path, snow depth)
 - ground summer survey (location, sighting plots)
- 3b. **Data acquisition methods:** Aerial and ground surveys. Maps and tape recorder used to record information.
 - 3c. **Geographic coverage:** British Columbia.
 - 3d. **Geographic units of measure:** UTM coordinates.
 - 3e. **Period of record:** 1966 to present.
 - 3f. **Update frequency:** Annually.
 - 4a. **Database storage format:** Hardcopy, maps.
 - 4b. **Database computer environment:** Not applicable.
 5. **Restrictions and conditions:** None.
 6. **Price information:** No charge.
 7. **Corresponding printed sources:** Maps.
 8. **Languages:** English.
 9. **User aids available:** None.
 10. **Keywords:** Pacific; Wildlife; Habitats
 11. **Additional information:** Survey information recorded on maps at scales of 1:250 000 and 1:50 000.

Aquatic Plant Files

APF-0092-E

1. **Summary description:** Contains biological (plant, water chemistry, morphometry, sediment chemistry) data for specific water bodies (freshwater, surface).
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Dr. Pat Warrington, Water Management Division, Water Quality Branch, Ministry of Environment, Lands and Parks, 3rd Floor, 765 Broughton Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-9513 Facsimile: (604) 356-8298
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - volume
 - biota
 - taxonomy
 - presence/absence
 - aquatic macrophytes
- 3b. **Data acquisition methods:** Manual sampling. Data input by departmental staff.
- 3c. **Geographic coverage:** 1,200 lakes in British Columbia.
- 3d. **Geographic units of measure:** Lakes.
- 3e. **Period of record:** 1970 to present.
- 3f. **Update frequency:** Ongoing.
- 4a. **Database storage format:** Herbarium specimens, magnetic disk.
- 4b. **Database computer environment:** Under revision.
5. **Restrictions and conditions:** None.
6. **Price information:** Currently no charge.
7. **Corresponding printed sources:** Manuals and identification keys to British Columbia aquatic plants.
8. **Languages:** English.
9. **User aids available:** See data centre contact.
10. **Keywords:** Ecology; Pacific; Plants
11. **Additional information:** None.

Aquatic Plant Management Data for British Columbia

APM-0091-E

1. **Summary description:** Contains biological information and management for specific waterbodies (freshwater, surface).
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Dr. Peter Newroth, Water Management Division, Water Quality Branch, Ministry of Environment, Lands and Parks, 3rd Floor, 765 Broughton Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-9495 *Facsimile:* (604) 356-8298
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- aquatic plants (location, biota, taxonomy, presence/absence, biological nuisance management)
- 3b. **Data acquisition methods:** Manually.
- 3c. **Geographic coverage:** Approximately 2,000 water bodies in British Columbia.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1972 to present.
- 3f. **Update frequency:** Varied.
- 4a. **Database storage format:** Hardcopy text/tables/maps, magnetic disk, herbarium specimens.
- 4b. **Database computer environment:** Unknown at this time.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** 120 publications, 10,000 herbarium specimens.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Ecology; Pacific; Plants
11. **Additional information:**
 1. Approximately 1,120 technical reports, mainly reviewing management of Eurasian watermilfoil in British Columbia labs have been published as of 1993.
 2. The herbarium of aquatic plants includes about 10,000 specimens.

BC Hierarchical Watershed Coding System

BCH-0488-E

1. **Summary description:** A catalogue of all lakes and streams in British Columbia based on current 1:50 000 mapping.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Tom Webber, Biologist, Water Quality Branch, Ministry of Environment, Lands and Parks, 765 Broughton Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-9494 *Facsimile:* (604) 356-8298
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- streams and lakes (name, stream length, geographic location)
- 3b. **Data acquisition methods:** Hardcopy map digitization. Digital capture of map information by Ministry staff.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Latitude and longitude, UTM coordinates.
- 3e. **Period of record:** 1985 to present.
- 3f. **Update frequency:** Irregularly.

- 4a. **Database storage format:** Hardcopy, tape.
- 4b. **Database computer environment:** VAX, INTERGRAPH IGDS.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Pacific; Hydrology; Geographic Information System;
11. **Additional information:** The database consists of two parts: blue line (stream) atlas and corresponding dictionary generated as a result of graphical capture of all blue lines and lakes.

BC Lakes

BCL-0492-E

1. **Summary description:** To provide a synopsis of hardcopy lake reports and a synopsis of regional data.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Angelo Facchin, Biologist Data Systems, Conservation Section, Fisheries Branch, Ministry of Environment, Lands and Parks, 780 Blanshard Street, Victoria, B.C. V8V 1X4
Phone: (604) 953-4982 *Facsimile:* (604) 387-6750
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- lake (location, area, volume)
- tenure
- fish species
- water and sediment chemistry
- information services
- 3b. **Data acquisition methods:** BC Biophysical Lakes Survey and Lakes Inventory files.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** UTM coordinates.
- 3e. **Period of record:** 1915 to present.
- 3f. **Update frequency:** Continual.
- 4a. **Database storage format:** Hard disk, tapes.
- 4b. **Database computer environment:** PC, FOXPRO, DBASE IV.
5. **Restrictions and conditions:** Set by Ministry GIS Committee.
6. **Price information:** No charge.
7. **Corresponding printed sources:** BC Lakes User's Manual. BC Lakes Data Dictionary.
8. **Languages:** English.
9. **User aids available:** Manuals and dictionaries.
10. **Keywords:** Pacific; Lakes; Environmental Science;
11. **Additional information:** None.

BC Listed Species

BCL-0512-E

1. **Summary description:** To record all rare and endangered taxa and ecosystems at risk.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Andrew Harcombe, Habitat Research Specialist, Conservation Data Centre, Wildlife Branch, Ministry of Environment, Lands and Parks, 780 Blanshard Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-9798 *Facsimile:* (604) 356-9145

- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- Red list (potentially endangered or threatened)
 - Blue list (potentially vulnerable)
 - Yellow list (all others not at risk)
 - subcategories of Yellow list (i) habitat sensitive (ii) managed for consumptive demand (iii) those of a global responsibility (iv) non-native with a negative impact (v) others
- 3b. **Data acquisition methods:** Monitoring. Information collected from existing databases.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1991 to present.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** PC.
5. **Restrictions and conditions:** None.
6. **Price information:** Some charges to users.
7. **Corresponding printed sources:** Regular publications on Red and Blue lists.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Pacific; Endangered species; Ecosystems
11. **Additional information:** The categories in the Yellow list are currently being developed.

BC MOE ARB Climate Data Capture

CDC-0221-E

1. **Summary description:** Meteorological data to assist in interpretation and prediction of effects of pollutant emissions through application of pollutant dispersion models. Data was collected mainly for land-use planning, focusing on temperature and precipitation measurement.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Ernie Tradewell, Quality Assurance Scientist, Air Resources Branch, Ministry of Environment, Lands and Parks, 777 Broughton Street, Victoria, B.C. V8V 1X5
Phone: (604) 387-9940 Facsimile: (604) 356-7197
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- precipitation
 - temperature
 - wind
 - solar radiation
 - snow depth
- 3b. **Data acquisition methods:** Daily maximum and minimum measured with Lambrecht recorder. Originally, precipitation measurements made with storage gauges but later on Belfort recording rain gauges used. Hourly wind speed and direction measured with a Lambrecht chart recording anemometer. Some stations equipped with pyranometers to measure total radiation. Snow depth measured manually with a snow ruler.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** 600 original stations but the number decreased to about 300 in 1982/83.
- 3e. **Period of record:** 1969 to 1990.
- 3f. **Update frequency:** Not applicable.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC, FOXPRO.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.

7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Climate; Climatology; Pacific
11. **Additional information:**
1. The network has been closed since 1990 and there are no plans to re-open it. The data are available in the archives.
 2. An in-house quality assurance program was maintained.
 3. The BC Environment and Land Use Committee originated a climate program in 1969; climate data to assist agriculturists and for general land-use planning were collected under this program. When the Ministry of Environment was formed in the mid 1970's, the Air Resources Branch (ARB) took over this function.

BC MOE ARB

Meteorological Information System

MIS-0222-E

1. **Summary description:** The main purpose of the network is to collect meteorological data for air quality assessment, the focus is on wind measurement.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Ernie Tradewell, Quality Assurance Scientist, Air Resources Branch, Ministry of Environment, Lands and Parks, 777 Broughton Street, Victoria, B.C. V8V 1X5
Phone: (604) 387-9940 Facsimile: (604) 356-7197
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- temperature
 - wind
 - wind deviation
- 3b. **Data acquisition methods:** Campbell Scientific data loggers. Temperature measured with a thermistor. The RM Young Gill Microvane Model 12302/12304 and the Aanderaa Wind Sensor (cup anemometer) Model 2740 used for wind measurement. Wind deviation (pseudo sigma theta) determined using Campbell Scientific CR21. Scalar speeds and prevailing directions (octants) are recorded.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** 20 active stations located throughout the province mainly in the larger population centres (except Greater Vancouver).
- 3e. **Period of record:** 1983 to present.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hard disk.
- 4b. **Database computer environment:** VAX mini-computer.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Climatology; Pacific; Weather
11. **Additional information:** In-house customized software is used for quality assurance.

BC Nest Records Scheme

BCN-0504-E

1. **Summary description:** To record information on breeding distribution and biology as well as habitat requirements for birds in British Columbia.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Wayne Campbell, Bird Inventory Specialist, Wildlife Management Section, Wildlife Branch, Ministry of Environment, Lands and Parks, 780 Blanshard Street, Victoria, B.C. V8V 1X4
Phone: (604) 356-1376 Facsimile: (604) 356-9145
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - breeding (time, biology, distribution)
 - population trends
- 3b. **Data acquisition methods:** Field survey. Information collected by ornithologists, biologists and naturalists.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** NTS grid.
- 3e. **Period of record:** 1956 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** PC, DBASE IV.
5. **Restrictions and conditions:** Some restrictions may apply.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Two volume report - *Birds of British Columbia*.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Habitats; Pacific; Wildlife; Birds
11. **Additional information:** Records are held by the British Columbia Federation of Naturalists (220 000 observation cards).

BC Parks Observation Cards

BCP-0501-E

1. **Summary description:** To provide records of occurrence of plant and animal sightings within British Columbia parks.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Bob Scheer, Natural Resource Officer, Southern Interior Region, Parks Division, Ministry of Environment, Lands and Parks, 101-1050 West Columbia Street, Kamloops, B.C. V2C 1L2
Phone: (604) 371-6421 Facsimile: (604) 828-4737
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - animal (species, local habitat, number, age, nesting site, tracks, scat)
 - plant (species, local habitat, number)
 - location and aspect of sighting
- 3b. **Data acquisition methods:** Field survey. Data collected by Ministry staff and volunteers using standard observation cards.
- 3c. **Geographic coverage:** Currently operational in southern interior and south coast regions.
- 3d. **Geographic units of measure:** UTM coordinates.
- 3e. **Period of record:** 1990 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC.

5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Pacific; Parks; Habitats
11. **Additional information:** None.

BC Parks Visitor Counts

PVC-0206-E

1. **Summary description:** A compilation of monthly attendance records for park use areas - campgrounds, day use areas, boating areas, used to quantify the usage of British Columbia Parks.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Ms. Donna Selbee, Parks Division Services, Ministry of Environment, Lands and Parks, 2nd Floor, 800 Johnson Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-4502 Facsimile: (604) 387-5757
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - monthly day counts of parties camping/boating
 - overnight counts of parties camping/boating
- 3b. **Data acquisition methods:** Manual recording. Daily attendance records.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Park use area.
- 3e. **Period of record:** 1983 to present.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** VAX, PC.
5. **Restrictions and conditions:** None.
6. **Price information:** Under review.
7. **Corresponding printed sources:** Park Data Handbook. Monthly Park Attendance Reports.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Pacific; Parks; Recreation
11. **Additional information:** None.

BC Seabird Colony File

BCS-0508-E

1. **Summary description:** To record populations of colonial nesting seabirds along the British Columbia coast.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Wayne Campbell, Bird Inventory Specialist, Wildlife Management Section, Wildlife Branch, Ministry of Environment, Lands and Parks, 780 Blanshard Street, Victoria, B.C. V8V 1X4
Phone: (604) 356-1376 Facsimile: (604) 356-9145
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - seabird population (distribution, trends)
- 3b. **Data acquisition methods:** Field survey. Information collected by biologists and naturalists.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** NTS grid.
- 3e. **Period of record:** 1968 to present.

- 3f. **Update frequency:** Annual.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Two volume report - *Birds of British Columbia*.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Pacific; Wildlife; Birds;
11. **Additional information:** This database documents all islands along the British Columbia coast with breeding seabirds (some 3,000 to 4,000 islands).

BC Soil Information System

BCS-0523-E

1. **Summary description:** Point data containing site, soil and laboratory data.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Herb Luttmending, Senior Soil Specialist, Habitat Protection Branch, Ministry of Environment, Lands and Parks, 780 Blanshard Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-9657 Facsimile: (604) 356-5104
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- soil (structure, parent material, texture, consistency, color, depth of rooting, drainage, taxonomic classification)
 - vegetation cover
 - effervescence
- 3b. **Data acquisition methods:** Field survey and analysis.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1960 to 1990.
- 3f. **Update frequency:** Irregularly.
- 4a. **Database storage format:** Original archive on tape.
- 4b. **Database computer environment:** Not yet determined, PC anticipated.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Pacific; Soils; Pedology;
11. **Additional information:** Database reactivated from archived state (February 1994).

BC Soil Survey

BCS-0516-E

1. **Summary description:** Describes the distribution and characteristics of the soils in British Columbia through published maps and reports.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Maps BC, Ministry of Environment, Lands and Parks, 3rd Floor, 1802 Douglas Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-1441 Facsimile: (604) 387-3022
- 2c. **Access mechanisms:** Through the responsible organization.

- 3a. **Parameters measured:**
- soil (texture, structure, taxonomic classification, color, consistency, mottling, drainage, depth of rooting)
 - various laboratory analysis
 - aerial distribution
 - topography
 - soil parent material
- 3b. **Data acquisition methods:** Field survey and analysis.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Soil series and soil association at various scales. Whole province at 1:1 000 000, 1:100 000 and selected areas at 1:20 000.
- 3e. **Period of record:** 1950 to present.
- 3f. **Update frequency:** Irregularly.
- 4a. **Database storage format:** Hardcopy maps and reports.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** Some charges applied to maps and reports.
7. **Corresponding printed sources:** Various maps and tables.
8. **Languages:** English.
9. **User aids available:** Canadian System of Soil Classification manual. Describing Ecosystems in the Field manual.
10. **Keywords:** Pacific; Pedology; Soils
11. **Additional information:** None.

BC Watershed Atlas and BC Stream Atlas

BCW-0495-E

1. **Summary description:** Digital atlases of stream centre-lines and lake, wetland and watershed outlines.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Peter Lewis, Head, Inventory and Data Systems, Fisheries Branch, Ministry of Environment, Lands and Parks, 780 Blanshard Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-9553 Facsimile: (604) 387-9750
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- stream centre-line locations
 - outlines (watersheds, lakes, wetlands)
- 3b. **Data acquisition methods:** Manual scanning and digitizing of NTS maps by Ministry staff.
- 3c. **Geographic coverage:** Stream Atlas includes all of British Columbia. Watershed Atlas covers Vancouver Island, Kootenays and Caribou (401 of 1,173 maps digitized).
- 3d. **Geographic units of measure:** UTM coordinates, latitude and longitude.
- 3e. **Period of record:** 1988 to present. Stream Atlas since 1988 and Watershed Atlas since June, 1993.
- 3f. **Update frequency:** Watershed Atlas updates ongoing. Stream Atlas no update.
- 4a. **Database storage format:** Hard disk, diskette, tapes.
- 4b. **Database computer environment:** PC, ARCVIEW, QUICKMAP, ARCINFO. VAX, INTERGRAPH IGDS.
5. **Restrictions and conditions:** As specified by the Ministry GIS Steering Committee.
6. **Price information:** Prototype, pricing under review.
7. **Corresponding printed sources:** Various references available on evolution of atlas.
8. **Languages:** English.
9. **User aids available:** None.

10. **Keywords:** Pacific; Geographic Information System; Geography
11. **Additional information:** Atlas still evolving.

BC Wildlife Occurrence File

BCW-0503-E

1. **Summary description:** To document sightings and recordings of higher vertebrates in British Columbia (mainly birds).
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Wayne Campbell, Bird Inventory Specialist, Wildlife Management Section, Wildlife Branch, Ministry of Environment, Lands and Parks, 780 Blanshard Street, Victoria, B.C. V8V 1X4
Phone: (604) 356-1376 Facsimile: (604) 356-9145
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - breeding and non-breeding distribution
 - migration corridors
 - annual occurrence
 - population trends
- 3b. **Data acquisition methods:** Field survey. Information taken from ornithological and biological diaries, specimens and naturalist observations provided by biologists and naturalists.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** NTS grid.
- 3e. **Period of record:** 1966 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** PC, DBASE IV.
5. **Restrictions and conditions:** Some restrictions may apply.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Two volume report - *Birds of British Columbia*.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Pacific; Wildlife; Birds
11. **Additional information:** Over 2 million records are on file.

Biological Conservation Database

BCD-0509-E

1. **Summary description:** To compile and centralize data on rare and endangered elements of biodiversity.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Andrew Harcombe, Habitat Research Specialist, Habitat Inventory Section, Wildlife Branch, Ministry of Environment, Lands and Parks, 780 Blanshard Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-9798 Facsimile: (604) 356-9145
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - topics include vertebrates, vascular plants and ecosystems
 - parameters measured (location, species, population size, site descriptions, threats to sites, protected status)
- 3b. **Data acquisition methods:** Surveys and monitoring. Information collected in the field as well as input from other databases.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** UTM coordinates (see 11).
- 3e. **Period of record:** 1991 to present.

- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC.
5. **Restrictions and conditions:** Some restrictions placed on sensitive species.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Reports include: *BC Conservation Data Centre Progress 1991-1993*; *Rare Vascular Plants of BC*; *Rare Freshwater Fish of BC*.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Pacific; Biodiversity; Wildlife
11. **Additional information:** Much attention is given to accurately describe the location of species in the field. This information is given in terms of NTS map sheets, regional districts and municipalities, major watersheds, biogeoclimatic zones, forest districts, management areas (National Parks).

Biological Database Inventory

BDI-0514-E

1. **Summary description:** To identify and record all databases of relevance to biodiversity in British Columbia (75 databases recorded).
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Darren McKellar, Habitat Data Manager, Wildlife Branch, Ministry of Environment, Lands and Parks, 780 Blanshard Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-9773 Facsimile: (604) 356-9145
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - databases relating to flora, fauna and ecosystems
- 3b. **Data acquisition methods:** Survey. Compilation of existing relevant databases.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1994 to present.
- 3f. **Update frequency:** Not applicable.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, FOXPRO.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Pacific; Biodiversity; Biota
11. **Additional information:** None.

Biophysical Inventory Tracking Database

BIT-0378-E

1. **Summary description:** The system tracks approximately 80 inventory projects which have been completed in British Columbia (includes information on associated maps and reports).
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Darren McKellar, Habitat Data Manager, Wildlife Branch, Ministry of Environment, Lands and Parks, 780 Blanshard Street, Victoria, B.C. V8V 1X4
Phone: (604) 356-5072 Facsimile: (604) 356-9145
- 2c. **Access mechanisms:** Through the responsible organization.

3a. Parameters measured:

- project metadata (contact, authority, maps, reports, data forms, site photos, project mapsheet coverage, type of mapping completed)

3b. Data acquisition methods: Monitoring. Inventory of environmental projects which have been completed in British Columbia.

3c. Geographic coverage: British Columbia.

3d. Geographic units of measure: 1:50 000 mapsheet.

3e. Period of record: 1986 to present.

3f. Update frequency: As required.

4a. Database storage format: Hard copy, diskette.

4b. Database computer environment: PC, ACCESS.

5. Restrictions and conditions: None.

6. Price information: No charge.

7. Corresponding printed sources: None.

8. Languages: English.

9. User aids available: None.

10. Keywords: Biota; Construction; Pacific

11. Additional information: None.

Biophysical Lake Inventory

BLI-0251-E

1. Summary description: Regional fisheries staff use the data to identify and manage wild fish stocks, to determine stocking levels for hatchery fish, and to identify rehabilitation possibilities. Habitat staff use it in planning and referral processes. The general public are recreational users of the lake bathymetry and fish data.

2a. Responsible organization: Ministry of Environment, Lands and Parks

2b. Database contact: Mr. John A. Balkwill, Conservation Section, Fisheries Branch, Ministry of Environment, Lands and Parks, 780 Blanshard Street, Victoria, B.C. V8V 1X4

Phone: (604) 387-9564 Facsimile: (604) 387-9750

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- basic bathymetric data
- fisheries species (presence, size, condition relative numbers)
- water chemistry
- surrounding land usage
- inlet/outlet spawning and rearing potential
- miscellaneous observations (access details, terrain features, existing recreational facilities)

3b. Data acquisition methods: Field studies. On site field investigations, use of echo sounders, gill nets, laboratory analyses for water chemistry and substrate parameters, visual observations of water/land use. Air photography for production of lake outlines.

3c. Geographic coverage: 3,444 lakes, mostly in southern British Columbia.

3d. Geographic units of measure: Scale varies with size of lake.

3e. Period of record: 1920 to present.

3f. Update frequency: As required.

4a. Database storage format: Hardcopy, maps.

4b. Database computer environment: PC, FOXPRO.

5. Restrictions and conditions: None.

6. Price information: There is a charge, (see 11).

7. Corresponding printed sources: None.

8. Languages: English.

9. User aids available: Not yet available.

10. Keywords: Fish; Hydrography; Lakes

11. Additional information:

1. Government users receive existing data free of charge. Private users and contractors get free reports but are charged for bathymetric maps at rates set by MAPS BC (currently \$3.25 plus taxes and \$1.00 handling).
2. Hard copy data still being input to the computer database.

British Columbia Park Registry

PAR-0385-E

1. Summary description: Park registry for British Columbia park and recreation areas.

2a. Responsible organization: Ministry of Environment, Lands and Parks

2b. Database contact: GIS Coordinator, Parks, Ministry of Environment, Lands and Parks, 2nd Floor, 800 Johnson Street, Victoria, B.C. V8V 1X4

Phone: (604) 356-6781 Facsimile: (604) 387-5757

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- park (name, file number, region, district, zone, class, area, location, date of establishment)
- files on park permits

3b. Data acquisition methods: Reports. Internal records.

3c. Geographic coverage: British Columbia.

3d. Geographic units of measure: UTM coordinates.

3e. Period of record: Not applicable.

3f. Update frequency: As new parks added.

4a. Database storage format: Hardcopy, diskette.

4b. Database computer environment: PC, DBASE IV.

5. Restrictions and conditions: None.

6. Price information: Policy under development.

7. Corresponding printed sources: Park Registry Report.

8. Languages: English.

9. User aids available: None.

10. Keywords: Ecology; Pacific; Parks

11. Additional information: None.

Coastal Waterbirds

CWA-0510-E

1. Summary description: To record all waterbird counts along the coast of British Columbia.

2a. Responsible organization: Ministry of Environment, Lands and Parks

2b. Database contact: Mr. Dennis Demarchi, Habitat Classification Specialist, Habitat Inventory Section, Wildlife Branch, Ministry of Environment, Lands and Parks, 780 Blanshard Street, Victoria, B.C. V8V 1X4

Phone: (604) 387-9772 Facsimile: (604) 356-9145

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- bird species (number, location/zone)

3b. Data acquisition methods: Field survey.

3c. Geographic coverage: British Columbia.

3d. Geographic units of measure: Defined zone (island, headland to headland).

3e. Period of record: 1960 to 1980.

3f. Update frequency: Static.

4a. Database storage format: Hardcopy.

4b. Database computer environment: Not applicable.

5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Pacific; Birds; Wildlife
11. **Additional information:** None.

Community Watersheds Index

CWI-0108-E

1. **Summary description:** List of licensed watersheds supplying communities and water user groups with drinking water.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Hal Coulson, Hydrology Branch, Ministry of Environment, Lands and Parks, 765 Broughton Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-9481 Facsimile: (604) 356-5496
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - location (drainage area, stream name)
 - NTS and Water Rights maps
 - priority
 - licensed quantity
 - licenses (number, user name)
- 3b. **Data acquisition methods:** Data compiled by Ministry staff.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Watershed code number.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** Not established.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** Macintosh, PC, EXCEL.
5. **Restrictions and conditions:** None.
6. **Price information:** Not established.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** *Guidelines for Community Watersheds* (in preparation).
10. **Keywords:** Hydrology; Water; Watersheds
11. **Additional information:** None.

Computer Assisted Planning and Map Production (Soils)

CAP-0522-E

1. **Summary description:** Areal distribution of soil polygons and associated soil descriptions.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Herb Luttmending, Senior Soil Specialist, Habitat Protection Branch, Ministry of Environment, Lands and Parks, 780 Blanshard Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-9657 Facsimile: (604) 356-5104
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - polygon characteristics
 - soil characteristics
- 3b. **Data acquisition methods:** Digitizing of maps.
- 3c. **Geographic coverage:** Specific areas in southern British Columbia at following scales 1:20 000, 1:25 000 and 1:50 000.

- 3d. **Geographic units of measure:** Soil polygons.
- 3e. **Period of record:** 1970 to 1980.
- 3f. **Update frequency:** Irregular.
- 4a. **Database storage format:** Original archive on tape.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Various maps.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Pacific; Geography; Soils
11. **Additional information:** Database reactivated from archived state (February, 1994).

Computerized Groundwater Database System

CGD-0118-E

1. **Summary description:** An inventory of water well records to provide summaries of groundwater information.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Rod Zimmerman, Senior Advanced Groundwater Hydrologist, Water Management Division, Ministry of Environment, Lands and Parks, 4th Floor, 765 Broughton Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-9475 Facsimile: (604) 356-5496
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - location
 - construction details
 - lithologies
 - performance data
- 3b. **Data acquisition methods:** Reports. Data input by Ministry staff.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Lot.
- 3e. **Period of record:** 1961 to 1991. 70,000 records.
- 3f. **Update frequency:** On project basis.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** VAX.
5. **Restrictions and conditions:** None.
6. **Price information:** Charge for photocopying and faxing.
7. **Corresponding printed sources:** Water Well Summary Reports.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Hydrology; Pacific; Water
11. **Additional information:** None.

Conservation Officer On-Line Reporting System (COORS)

COO-0112-E

1. **Summary description:** Violators of environmental legislation in British Columbia.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Mark Scherzer, Enforcement Branch, Ministry of Environment, Lands and Parks, 2nd Floor, 777 Fort Street, Victoria, B.C. V8V 1X4
Phone: (604) 953-3299 Facsimile: (604) 387-1041

- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- parties involved
 - legislation involved
 - charges and warnings issued
 - penalties assigned
 - wildlife species involved
- 3b. Data acquisition methods:** Distributed data entry. Individual user keyed entry.
- 3c. Geographic coverage:** British Columbia.
- 3d. Geographic units of measure:** Ministry of Environment, Lands and Parks management units.
- 3e. Period of record:** 1993 to present.
- 3f. Update frequency:** On-line distributed access.
- 4a. Database storage format:** Hard disk.
- 4b. Database computer environment:** HP UNIX workstation, ORACLE. Macintosh, PC.
- 5. Restrictions and conditions:** Restricted to Enforcement Agencies and Licensing Bureau.
- 6. Price information:** Negotiable, based on use and design.
- 7. Corresponding printed sources:** Internal documents, Charges Laid Report, Significant Convictions and Fines Report.
- 8. Languages:** English.
- 9. User aids available:** In-house generated User's guide.
- 10. Keywords:** Enforcement; Pacific; Regulation
- 11. Additional information:** COORS is still under development. Current test pilot efforts continue to refine the application.

Conservation Outdoor Recreation and Education System

COR-0306-E

- 1. Summary description:** An inventory formed to record and make easily accessible personal, examination success and testing information of 5,000 students and 550 examiners annually. This information is required for verification of mandatory hunting license requirements and recording of examiner, examiner supply and accomplishments. CORE Certificate is required by legislation for new hunters to obtain Hunter Numbers.
- 2a. Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. Database contact:** Mr. Darren E. McKellar, Habitat Data Manager, Wildlife Branch, Ministry of Environment, Lands and Parks, 780 Blanshard Street, Victoria, B.C. V8V 1X4
Phone: (604) 356-5072 *Facsimile:* (604) 356-9145
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- allocated core training number
 - student name
 - address
- 3b. Data acquisition methods:** Monitoring. Data originates from student registration forms upon successful completion of CORE hunter training examinations.
- 3c. Geographic coverage:** British Columbia.
- 3d. Geographic units of measure:** Not applicable.
- 3e. Period of record:** 1960 to present.
- 3f. Update frequency:** As required.
- 4a. Database storage format:** Hardcopy, microfiche, tape.
- 4b. Database computer environment:** VAX.
- 5. Restrictions and conditions:** Some data may be confidential (see 11).
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.

- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Pacific; Regulation; Wildlife
- 11. Additional information:** Due to sensitive nature of the information, only summary type information is released to the public.

Continuous Ambient Monitoring Information

CAM-0238-E

- 1. Summary description:** Ambient Monitoring used in environmental reporting and permit monitoring.
- 2a. Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. Database contact:** Mr. Ernie Tradewell or Mr. Bob Marsh, Atmospheric Reporting and Monitoring Section, Air Resources Branch, Ministry of Environment, Lands and Parks, 777 Broughton Street, Victoria, B.C. V8V 1X5
Phone: (604) 387-9940 *Facsimile:* (604) 356-7197
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- chemical (SO₂, O₃, NO, NO₂, TRS as (H₂S), CO, PM10 Particulate (discontinued 1992))
 - hourly averages
- 3b. Data acquisition methods:** Analysis. Continuous gas analyzers; TECO, ML, TEOM.
- 3c. Geographic coverage:** British Columbia.
- 3d. Geographic units of measure:** Not applicable.
- 3e. Period of record:** 1977 to present.
- 3f. Update frequency:** Continually.
- 4a. Database storage format:** Hard disk.
- 4b. Database computer environment:** VAX.
- 5. Restrictions and conditions:** None.
- 6. Price information:** May be cost recovery.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Air quality; Contaminants; Pacific
- 11. Additional information:**
1. Archive contains data from BC Environment sites, permits and Greater Vancouver Regional District (GVRD).
 2. BC Environment and permit data is validated in house. Some data is sent to NAPS.

Describing Ecosystems in the Field

DEF-0506-E

- 1. Summary description:** To describe parameters of complete ecosystems throughout British Columbia.
- 2a. Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. Database contact:** Mr. Dennis Demarchi, Habitat Classification Specialist, Habitat Inventory Section, Wildlife Branch, Ministry of Environment, Lands and Parks, 780 Blanshard Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-9772 *Facsimile:* (604) 356-9145
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- site characteristics (soil, vegetation, humus, wildlife, mensuration)
- 3b. Data acquisition methods:** Survey. Ministry staff initiate studies to collect information on one or more topic areas (vegetation, wildlife).

- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1975 to present.
- 3f. **Update frequency:** Annual.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** IBM mainframe.
- 5. **Restrictions and conditions:** None.
- 6. **Price information:** No charge.
- 7. **Corresponding printed sources:** None.
- 8. **Languages:** English.
- 9. **User aids available:** None.
- 10. **Keywords:** Pacific; Ecology; Habitats;
- 11. **Additional information:** This system has been developed from BCSIS (Soil Information System).

Dioxins and Furans in the BC Environment

DFE-0498-E

- 1. **Summary description:** An environmental monitoring program involving the collection and analysis of approximately 500 samples from areas located near possible sources of dioxins and furans.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Jay Van Oostdam, Toxicologist, Toxicology Unit, Industrial Waste Branch, Ministry of Environment, Lands and Parks, 3rd Floor, 777 Broughton Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-3637 *Facsimile:* (604) 387-9935
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - location
 - media type (wood, soil, water, vegetation, fish)
 - dioxin/furan (type)
- 3b. **Data acquisition methods:** Survey. Field sampling of industrial, commercial and residential sites including pulp mills, power lines and wood treatment sites.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Municipality.
- 3e. **Period of record:** 1990 to present.
- 3f. **Update frequency:** Complete at present, may be extended.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, Macintosh, FOXBASE.
- 5. **Restrictions and conditions:** Some confidentiality restrictions apply.
- 6. **Price information:** Cost recovery charges.
- 7. **Corresponding printed sources:** Summary report.
- 8. **Languages:** English.
- 9. **User aids available:** None.
- 10. **Keywords:** Pacific; Contaminants; Toxic chemicals
- 11. **Additional information:** None.

Ecological Reserve Proposals Registry

ERE-0380-E

- 1. **Summary description:** An inventory of ecological reserve proposals.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks

- 2b. **Database contact:** GIS Coordinator, Parks, Ministry of Environment, Lands and Parks, 2nd Floor, 800 Johnson Street, Victoria, B.C. V8V 1X4
Phone: (604) 356-6781 *Facsimile:* (604) 387-5757
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - location (area, region, district, zone)
 - ecological reserve
 - proposal name
 - number
 - various agency districts
- 3b. **Data acquisition methods:** Monitoring. New reserve proposals from the public.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** Quarterly.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE IV.
- 5. **Restrictions and conditions:** None.
- 6. **Price information:** Policy under development.
- 7. **Corresponding printed sources:** None.
- 8. **Languages:** English.
- 9. **User aids available:** None.
- 10. **Keywords:** Ecology; Habitats; Pacific
- 11. **Additional information:** None.

Ecological Reserve Registry

ECO-0382-E

- 1. **Summary description:** An inventory of ecological reserve sites.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** GIS Coordinator, Parks, Ministry of Environment, Lands and Parks, 2nd Floor, 800 Johnson Street, Victoria, B.C. V8V 1X4
Phone: (604) 356-6781 *Facsimile:* (604) 387-5757
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - ecological reserve name
 - file
 - location (region, district, area)
 - date of establishment
 - other regions
 - districts (land, electoral)
 - archaeological sites
- 3b. **Data acquisition methods:** Monitoring internal records. Data input by departmental staff.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** UTM coordinates.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** Quarterly.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE IV.
- 5. **Restrictions and conditions:** None.
- 6. **Price information:** Policy under development.
- 7. **Corresponding printed sources:** Ecological Reserve Registry Report.
- 8. **Languages:** English.
- 9. **User aids available:** None.
- 10. **Keywords:** Ecology; Pacific; Protected areas

11. Additional information: None.

Ecological Reserves

ECO-0490-E

- 1. Summary description:** To describe the physical and biological contents of ecological reserves throughout British Columbia.
- 2a. Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. Database contact:** Dr. Hans Roemer, Ecological Reserve Specialist, Planning and Conservation Services, Ministry of Environment, Lands and Parks, 2nd Floor, 800 Johnson Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-4649 *Facsimile:* (604) 387-5757
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - ecological reserve (flora, fauna, ecology)
- 3b. Data acquisition methods:** Field observations. Data collected and input by Ministry staff.
- 3c. Geographic coverage:** British Columbia.
- 3d. Geographic units of measure:** Ecological reserve.
- 3e. Period of record:** 1969 to present.
- 3f. Update frequency:** Irregularly.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, WORDPERFECT.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** *Guide to Ecological Reserves in British Columbia. Ecological Reserves in British Columbia* (summary report).
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Pacific; Ecology; Protected areas;
- 11. Additional information:** None.

Emergency Incident Database

EID-0507-E

- 1. Summary description:** To record incidents of dangerous goods spills, as well as incidents regarding floods, landslides, air emissions and effluents.
- 2a. Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. Database contact:** Ms. Helen Gregg, Scientific Technical Officer, Environmental Emergency Coordination Office, Ministry of Environment, Lands and Parks, 2nd Floor, 737 Courtney Street, Victoria, B.C. V8V 1X4
Phone: (604) 356-9196 *Facsimile:* (604) 356-0742
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - incident (location, date/time, type)
 - name and address of perpetrator
 - sector (industrial, commercial)
 - cause
 - response (action taken)
 - material spilled
- 3b. Data acquisition methods:** Monitoring. Data taken from the Dangerous Incident Report form.
- 3c. Geographic coverage:** British Columbia.
- 3d. Geographic units of measure:** Latitude and longitude.
- 3e. Period of record:** 1992 to present.
- 3f. Update frequency:** Daily.

- 4a. Database storage format:** Hardcopy.
- 4b. Database computer environment:** PC, Macintosh, HYPERCARD 2.1.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** Annual report.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Pacific; Contaminants; Spills;
- 11. Additional information:** None.

Environmental Legislation Charges and Convictions Database

ELC-0237-E

- 1. Summary description:** To track and report on violators of environmental protection laws in the province of British Columbia.
- 2a. Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. Database contact:** Mr. Mark Scherzer, Research Officer, Enforcement Branch, Ministry of Environment, Lands and Parks, 2nd Floor, 777 Fort Street, Victoria, B.C. V8V 1X4
Phone: (604) 953-3299 *Facsimile:* (604) 387-1041
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - individual/operation (name, location)
 - date (charge, offence)
 - court date/location
 - Act violated
 - offence (description, sentence, put over to date, appeal)
- 3b. Data acquisition methods:** Monitoring. Tracking and reporting violators of environmental legislation.
- 3c. Geographic coverage:** British Columbia.
- 3d. Geographic units of measure:** Six regions.
- 3e. Period of record:** 1989 to 1993.
- 3f. Update frequency:** Bi-annually.
- 4a. Database storage format:** Hardcopy.
- 4b. Database computer environment:** Macintosh, FILEMAKER PRO.
- 5. Restrictions and conditions:** Only person entering data has direct access.
- 6. Price information:** None.
- 7. Corresponding printed sources:** Charges Laid reports and Significant Convictions reports released to the public twice a year.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Enforcement; Pacific; Regulation
- 11. Additional information:** None.

Fisheries Overview Inventory

FOI-0148-E

- 1. Summary description:** Overview data pertaining to fish, fish habitat and resource (fish) use. Descriptors pointed toward estimates of abundance, quality, uniqueness and sensitivity to disturbance.
- 2a. Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. Database contact:** Mr. C. Peter Lewis, Head, Inventory and Data Systems Unit, Conservation Section, Fisheries Branch,

Ministry of Environment, Lands and Parks, 780 Blanshard Street, Victoria, B.C. V8V 1X4

Phone: (604) 387-9553 Facsimile: (604) 387-9750

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- map/photo habitat data (watersheds, lake classification, stream/reach classification)
- existing data compilation: lakes and streams (physical erosion, species present, species of management concern, stocking)
- fish distributions (anadromous, resident)
- points of interest (hatcheries, critical habitats)

3b. Data acquisition methods: Compilation of file data, personal knowledge. Use of the scanned 1:50 000 Digital Watershed Atlas.

3c. Geographic coverage: Vancouver Island, Nelson Forest Region, Caribou Forest Region - provincial coverage eventually.

3d. Geographic units of measure: Individual lakes and streams, third order watersheds.

3e. Period of record: Historic information - only available for 3 of 8 regions of British Columbia.

3f. Update frequency: Not applicable.

4a. Database storage format: Diskette.

4b. Database computer environment: PC, FOXPRO, QUIKMAP, ARC/INFO GIS.

5. Restrictions and conditions: None.

6. Price information: No charge.

7. Corresponding printed sources: CORE mapping (in preparation).

8. Languages: English.

9. User aids available: None.

10. Keywords: Fisheries; Geographic Information System; Pacific

11. Additional information: This database enables experienced staff to make the best possible interpretations of values and sensitivities for planning and management. Georeferencing gives the ability to display the implications of those interpretations spatially.

Fishstock Release Records

FRR-0489-E

1. Summary description: To record trout, char and Kokanee releases into lakes and streams.

2a. Responsible organization: Ministry of Environment, Lands and Parks

2b. Database contact: Ms. Sue Billings, Fisheries Technician, Fish Culture Section, Fisheries Branch, Ministry of Environment, Lands and Parks, 3rd Floor, 780 Blanshard Street, Victoria, B.C. V8V 1X4

Phone: (604) 387-9681 Facsimile: (604) 387-9750

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- fish (species, size, number)
- stock (genetic origin)
- name of waterbody

3b. Data acquisition methods: Monitoring. Data input directly by hatchery staff.

3c. Geographic coverage: British Columbia.

3d. Geographic units of measure: Latitude and longitude.

3e. Period of record: 1975 to present.

3f. Update frequency: Weekly.

4a. Database storage format: Hardcopy, diskette.

4b. Database computer environment: VAX, POWERHOUSE.

5. Restrictions and conditions: None.

6. Price information: No charge.

7. Corresponding printed sources: None.

8. Languages: English.

9. User aids available: None.

10. Keywords: Pacific; Fisheries; Wildlife

11. Additional information: None.

Floodplain Management Bylaw Index

FMB-0502-E

1. Summary description: To provide a listing of all local governments in British Columbia and their regulatory response to floodplain management.

2a. Responsible organization: Ministry of Environment, Lands and Parks

2b. Database contact: Mr. Neil Hamilton, Manager, Planning and Standards Section, Floodplain Management Branch, Ministry of Environment, Lands and Parks, 765 Broughton Street, Victoria, B.C. V8V 1X4

Phone: (604) 387-3427 Facsimile: (604) 387-3429

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- local government (name, address, contact person)
- Official Community Plan in place
- Floodplain Management Bylaw in place
- setback and elevation of Floodplain Management Bylaw

3b. Data acquisition methods: Monitoring. Information taken from Floodplain Management Bylaws.

3c. Geographic coverage: British Columbia.

3d. Geographic units of measure: Local government boundaries.

3e. Period of record: 1972 to 1991.

3f. Update frequency: Static at present (see 11).

4a. Database storage format: Hardcopy.

4b. Database computer environment: VAX.

5. Restrictions and conditions: None.

6. Price information: No charge.

7. Corresponding printed sources: None.

8. Languages: English.

9. User aids available: None.

10. Keywords: Pacific; Environmental Science; Government

11. Additional information: It has been proposed to transfer the database to a Macintosh system using EXCEL software.

Floodplain Mapping Database

FMD-0280-E

1. Summary description: Flood plain areas are clearly identified on 1:5 000 scale 1 meter contour basemaps.

2a. Responsible organization: Ministry of Environment, Lands and Parks

2b. Database contact: M. Hugh Porter, A/Manager, Flood Control and Response Section, Floodplain Management Branch, Ministry of Environment, Lands and Parks, 76 Broughton Street, Victoria, C.-B. V8V 1X4

Phone: (604) 387-6773 Facsimile: (604) 387-3429

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- river cross section data
- flood level data
- 1 m digital contour data
- hydrological data

3b. Data acquisition methods: River surveys. Survey data collected from the field in digital format.

- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Portion of river corridors.
- 3e. **Period of record:** 1976 to present.
- 3f. **Update frequency:** Ongoing.
- 4a. **Database storage format:** Hardcopy maps.
- 4b. **Database computer environment:** PC.
- 5. **Restrictions and conditions:** None.
- 6. **Price information:** No charge.
- 7. **Corresponding printed sources:** Design briefs prepared for each mapping project.
- 8. **Languages:** English.
- 9. **User aids available:** Key plan catalogues and index maps.
- 10. **Keywords:** Hydrography; Natural disasters; Pacific
- 11. **Additional information:** Database includes results of 70 projects comprising 454 maps sheets.

Groundwater Monitoring Well Database

GWM-0518-E

- 1. **Summary description:** This is an inventory of monitoring wells.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Rod Zimmerman, Senior Groundwater Hydrologist, Water Management Division, Ministry of Environment, Lands and Parks, 765 Broughton Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-9464 *Facsimile:* (604) 356-5496
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- well (owner, location, contact)
- 3b. **Data acquisition methods:** Survey. Telephone interviews.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1989 to 1989.
- 3f. **Update frequency:** None.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE.
- 5. **Restrictions and conditions:** None.
- 6. **Price information:** No charge.
- 7. **Corresponding printed sources:** None.
- 8. **Languages:** English.
- 9. **User aids available:** None.
- 10. **Keywords:** Pacific; Hydrology; Water
- 11. **Additional information:** None.

Groundwater Observation Well Network

GOW-0120-E

- 1. **Summary description:** Observation wells, locations and hydrographs.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Mike Wei, Senior Advanced Groundwater Hydrologist, Water Management Division, Ministry of Environment, Lands and Parks, 4th Floor, 765 Broughton Street, Victoria, B.C. V8V 1X4
Phone: (604) 356-5062 *Facsimile:* (604) 356-5496
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- water (volume, quality, location, levels)
- ownership

- physical
- biological
- chemical

- 3b. **Data acquisition methods:** Recorder chart. Stevens water well recorder.
- 3c. **Geographic coverage:** Part of British Columbia.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1950 to present. 70,000 records.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** Not applicable.
- 5. **Restrictions and conditions:** None.
- 6. **Price information:** Charge for photocopy.
- 7. **Corresponding printed sources:** None.
- 8. **Languages:** English.
- 9. **User aids available:** None.
- 10. **Keywords:** Hydrography; Pacific; Water
- 11. **Additional information:** None.

Groundwater Potential Mapping

GPM-0122-E

- 1. **Summary description:** Shows differing groundwater availability.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Rod Zimmerman, Senior Advanced Groundwater Hydrologist, Water Management Division, Ministry of Environment, Lands and Parks, 4th Floor, 765 Broughton Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-9464 *Facsimile:* (604) 356-5496
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- groundwater (location, availability, physical, chemical)
- 3b. **Data acquisition methods:** Not applicable.
- 3c. **Geographic coverage:** A portion of the east coast of Vancouver Island.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1983 to 1986. 70,000 records.
- 3f. **Update frequency:** Not applicable.
- 4a. **Database storage format:** Hardcopy maps.
- 4b. **Database computer environment:** Not applicable.
- 5. **Restrictions and conditions:** None.
- 6. **Price information:** Charge for photocopy.
- 7. **Corresponding printed sources:** None.
- 8. **Languages:** English.
- 9. **User aids available:** None.
- 10. **Keywords:** Hydrology; Pacific; Water
- 11. **Additional information:** None.

Groundwater Section NTS Files

GSN-0121-E

- 1. **Summary description:** Reports of groundwater investigations.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Rod Zimmerman, Senior Advanced Groundwater Hydrologist, Water Management Division, Ministry of Environment, Lands and Parks, 4th Floor, 765 Broughton Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-9475 *Facsimile:* (604) 356-5496

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- groundwater (volume, movement, location, ownership, availability)
- physical
- biological
- chemical

3b. Data acquisition methods: Not applicable.

3c. Geographic coverage: British Columbia

3d. Geographic units of measure: Lot.

3e. Period of record: 1880 to present. 70,000 records.

3f. Update frequency: Continuous.

4a. Database storage format: Hardcopy.

4b. Database computer environment: Not applicable.

5. Restrictions and conditions: Varies.

6. Price information: Charge for photocopy.

7. Corresponding printed sources: None.

8. Languages: English.

9. User aids available: None.

10. Keywords: Hydrology; Pacific; Water

11. Additional information: None.

Habitat Monitoring Database

HMD-0500-E

1. Summary description: To record monitoring information describing changes resulting from habitat improvement projections.

2a. Responsible organization: Ministry of Environment, Lands and Parks

2b. Database contact: Ms. Lynn Bonner, Habitat Wildlife Specialist, Wildlife Branch, Ministry of Environment, Lands and Parks, 780 Blanshard Street, Victoria, B.C. V8V 1X4

Phone: (604) 387-1158 Facsimile: (604) 356-9145

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- project description form (site, vegetation, prescribed fire, herbicide, forage use, seeding and planting)
- photographs

3b. Data acquisition methods: Field survey. Data collected by Ministry staff and contractors.

3c. Geographic coverage: British Columbia.

3d. Geographic units of measure: UTM coordinates.

3e. Period of record: 1990 to present.

3f. Update frequency: As field work completed.

4a. Database storage format: Hardcopy.

4b. Database computer environment: VAX, POWERHOUSE.

5. Restrictions and conditions: None.

6. Price information: No charge.

7. Corresponding printed sources: None.

8. Languages: English.

9. User aids available: Procedures manual - *Procedures for Environmental Monitoring in Range Wildlife Habitat Management*.

10. Keywords: Pacific; Habitats; Wildlife

11. Additional information: None.

Hydroacoustic Fish Stock Monitoring

HFS-0513-E

1. Summary description: Hydroacoustic stock monitoring and assessment of Kokanee (*Oncorhynchus nerka*).

2a. Responsible organization: Ministry of Environment, Lands and Parks

2b. Database contact: Mr. George Scholten, Fisheries Technician, Stock Conservation Section, Fisheries Branch, Ministry of Environment, Lands and Parks, 780 Blanshard Street, Victoria, B.C. V8V 1X4

Phone: (604) 387-9586 Facsimile: (604) 387-9750

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- acoustic targets in dB
- vertical and horizontal density distributions (fish per ha.) by basin, by survey
- vertical and horizontal size distributions in dB

3b. Data acquisition methods: Monitoring. Information collected using echosounders (Biosonics and Simrad echosounding systems).

3c. Geographic coverage: Large lakes and reservoirs in British Columbia.

3d. Geographic units of measure: Point samples.

3e. Period of record: 1984 to 1993.

3f. Update frequency: Annually on long term monitoring projects.

4a. Database storage format: Hard disk, diskette.

4b. Database computer environment: PC, EXCEL.

5. Restrictions and conditions: Processed data only.

6. Price information: No charge.

7. Corresponding printed sources: Fisheries, Large Lakes and Reservoir Kokanee Stock Assessments.

8. Languages: English.

9. User aids available: None.

10. Keywords: Pacific; Fish; Wildlife

11. Additional information: Trawl data is paired with acoustic surveys providing species verification and fish characteristic data (size at age, sex, maturity, feeding).

Hydrology Water Supply Report Index

HWS-0109-E

1. Summary description: Index of reports on water supply estimates. Database also includes reports on peak flows, water management, low flows and land use.

2a. Responsible organization: Ministry of Environment, Lands and Parks

2b. Database contact: Mr. Hal Coulson, Hydrology Branch, Ministry of Environment, Lands and Parks, 765 Broughton Street, Victoria, B.C. V8V 1X4

Phone: (604) 387-9481 Facsimile: (604) 356-5496

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- study (name, author, date)
- water area involved (creeks, lakes, rivers)
- region of province

3b. Data acquisition methods: Compilation. Data input by Ministry staff.

3c. Geographic coverage: British Columbia.

3d. Geographic units of measure: Watershed, stream name.

3e. Period of record: 1969 to present.

3f. Update frequency: Ongoing.

4a. Database storage format: Hardcopy, diskette.

4b. Database computer environment: Macintosh, PC, EXCEL.

5. Restrictions and conditions: None.

6. Price information: Not established.

7. Corresponding printed sources: None.

8. Languages: English.

9. **User aids available:** None.
10. **Keywords:** Hydrology; Pacific; Water quality
11. **Additional information:** None.

Hydrometric Station Index

HSI-0100-E

1. **Summary description:** Provincial/regional hydrometric data, primarily seasonal or low flow.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Hal Coulson, Hydrology Branch, Ministry of Environment, Lands and Parks, 4th Floor, 765 Broughton Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-9481 *Facsimile:* (604) 356-5496
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - stream (discharge, surface elevation)
 - lake surface elevation
- 3b. **Data acquisition methods:** Velocity, analogue recorder, staff gauge. Price current meter, OTT current meter.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Basins, latitude and longitude, proximity to known place names.
- 3e. **Period of record:** 1974 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** Various - in a state of flux.
5. **Restrictions and conditions:** Subject to reorganization.
6. **Price information:** Not applicable.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Hydrology; Pacific; Water
11. **Additional information:**
 1. The hydrometric program is semi-active pending results of a major review.
 2. Files were formally maintained on an IBM mainframe which is not currently accessible.
 3. Database covers primary operations located in populated areas or in areas of heavy water demand.

Lake Rehab

LR-0526-E

1. **Summary description:** A historic summary of lakes rehabilitated in British Columbia.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Ms. Vicki Blann, Small Lakes Biologist, Fisheries Branch, Ministry of Environment, Lands and Parks, 780 Blanshard Street, Victoria, B.C. V8V 1X4
Phone: (604) 356-9939 *Facsimile:* (604) 387-9750
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - lake (name, region)
 - treatment date (chemicals used)
 - physical data
 - management unit
 - target species
 - volume of lakes and streams
 - flushing rates
 - maximum depth

- 3b. **Data acquisition methods:** Monitoring. Hardcopy data from regional offices.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Location.
- 3e. **Period of record:** 1947 to 1988.
- 3f. **Update frequency:** Static.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC, DBASE IV.
5. **Restrictions and conditions:** None.
6. **Price information:** Not applicable.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Pacific; Lakes; Hydrology;
11. **Additional information:** Georeferencing system pending completion of the British Columbia Lakes Database.

Land Data BC Repository

LDB-0487-E

1. **Summary description:** This repository of land related metadata is comprised of two components; administrative metadata and schema information.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Ms. Elaine Dawson, Data Administrator, Surveys and Resource Mapping Branch, Ministry of Environment, Lands and Parks, 4th Floor, 1802 Douglas Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-5831 *Facsimile:* (604) 356-7831
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - products (distribution, formats, media, custodianship)
 - responsibilities
 - associated databases (geographic extent, currency, version, geographic accuracy)
 - data type
 - attribute description
- 3b. **Data acquisition methods:** Monitoring. Collected from the custodian agency.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** 1:20 000 BC map grid.
- 3e. **Period of record:** 1993 to present.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** On-line access, diskette.
- 4b. **Database computer environment:** PC, TERRAVIEW.
5. **Restrictions and conditions:** None.
6. **Price information:** Not applicable.
7. **Corresponding printed sources:** Land Data BC Data Definition Specification, Version 1. Land Information Management Framework, Version 1.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Pacific; Land use; Geographic Information System;
11. **Additional information:** None.

Median Elevations for Watersheds in British Columbia

MEW-0115-E

1. **Summary description:** Drainage area and median elevation of selected BC watersheds.

- 2a. Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. Database contact:** Mr. Don Reksten, Hydrology Branch, Watersheds Studies Unit, Ministry of Environment, Lands and Parks, 765 Broughton Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-9475 Facsimile: (604) 356-5496
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- drainage area
 - median elevation
- 3b. Data acquisition methods:** Digitized maps.
- 3c. Geographic coverage:** British Columbia.
- 3d. Geographic units of measure:** Watershed.
- 3e. Period of record:** 1975 to present.
- 3f. Update frequency:** Continually.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** Macintosh, PC, EXCEL.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** Watershed Studies.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Hydrography; Water; Watersheds
- 11. Additional information:** None.

PARKREG

PRE-0515-E

- 1. Summary description:** A register for British Columbia parks.
- 2a. Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. Database contact:** Ms. Lynn Barnett, GIS Coordinator, Parks, Ministry of Environment, Lands and Parks, 2nd Floor, 800 Johnson Street, Victoria, B.C. V8V 1X4
Phone: (604) 356-6781 Facsimile: (604) 356-5757
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- park (name, location, region, district zone, class, date of establishment, Orders-in Council, file number)
 - other regions/districts (land, regional/electoral assessment, school, forest, mines, highway, environment)
- 3b. Data acquisition methods:** Monitoring. Internal records.
- 3c. Geographic coverage:** British Columbia.
- 3d. Geographic units of measure:** UTM coordinates.
- 3e. Period of record:** 1960 to present.
- 3f. Update frequency:** As new parks are added.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, DBASE IV.
- 5. Restrictions and conditions:** None.
- 6. Price information:** Policy under development.
- 7. Corresponding printed sources:** Park registry report.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Pacific; Parks; Geographic Information System
- 11. Additional information:** None.

Peak Flow Estimate Index

PFE-0107-E

- 1. Summary description:** Record of estimates of return period peak flows by stream.

- 2a. Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. Database contact:** Mr. Hal Coulson, Hydrology Branch, Ministry of Environment, Lands and Parks, 765 Broughton Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-9481 Facsimile: (604) 356-5496
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- location (drainage area, stream name, NTS map sheet)
 - return period peak flow
 - purpose
 - date of estimate
- 3b. Data acquisition methods:** Recording peak flow estimates. Data input by Ministry staff.
- 3c. Geographic coverage:** British Columbia.
- 3d. Geographic units of measure:** Watershed/stream name.
- 3e. Period of record:** 1975 to present.
- 3f. Update frequency:** Ongoing.
- 4a. Database storage format:** Hardcopy.
- 4b. Database computer environment:** Macintosh, EXCEL.
- 5. Restrictions and conditions:** None.
- 6. Price information:** Not established.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Hydrology; Rivers; Water quantity
- 11. Additional information:** None.

Pesticide Licensing and Certification

PLC-0493-E

- 1. Summary description:** To record all applicants for licensing and certification for pesticide use.
- 2a. Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. Database contact:** Ms. Sharon Branson, Permits Manager, Pesticide Management Branch, Ministry of Environment, Lands and Parks, 4th Floor, 737 Courtney Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-9413 Facsimile: (604) 387-8897
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- licensee (year, duration)
 - certification (1 or 5 years)
- 3b. Data acquisition methods:** Manual input. Application forms.
- 3c. Geographic coverage:** British Columbia.
- 3d. Geographic units of measure:** Municipality.
- 3e. Period of record:** 1983 to present.
- 3f. Update frequency:** Daily.
- 4a. Database storage format:** Hardcopy.
- 4b. Database computer environment:** VAX, SMARTERM.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** Annual report.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Pacific; Pesticides; Regulation;
- 11. Additional information:** To be certified an applicant must pass an examination. Exam results determine the length of certification (1 to 5 years).

Pesticide Use Permit

PUP-0494-E

1. **Summary description:** To record all pesticide use permits issued in British Columbia, including follow-up data.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Ms. Sharon Branson, Permits Manager, Pesticide Management Branch, Ministry of Environment, Lands and Parks, 4th Floor, 737 Courtney Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-9413 *Facsimile:* (604) 387-8897
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - pesticide (type, quantity in kg, area applied in hectares, how applied)
 - appeals
 - follow-up (authorized use, actual use)
- 3b. **Data acquisition methods:** Manual input. Application forms.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** NTS map quadrant (quarter hectare).
- 3e. **Period of record:** 1985 to present.
- 3f. **Update frequency:** Daily.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** VAX, SMARTERM.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Annual report.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Pacific; Pesticides; Regulation
11. **Additional information:** None.

Problem Wildlife Management System

PWM-0505-E

1. **Summary description:** To record incidents of species conflict with human safety, livestock and property damage.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Barry Saunders, Problem Wildlife Specialist, Wildlife Management Section, Wildlife Branch, Ministry of Environment, Lands and Parks, 780 Blanshard Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-9795 *Facsimile:* (604) 356-9145
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - species involved in conflict
 - action taken to correct situation
 - location of incident
 - type of conflict
 - management unit (geographic area)
- 3b. **Data acquisition methods:** Monitoring. Ministry staff report incidents of wildlife conflict.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Wildlife management unit, 225 units in 8 regions of the province.
- 3e. **Period of record:** 1984 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** VAX, DATARIEVE.

5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Pacific; Wildlife; Public attitudes;
11. **Additional information:** None.

QA Round-Robin (Water Quality)

QAR-0256-E

1. **Summary description:** Interlaboratory comparison (water) data for laboratories in British Columbia.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Dr. Malcolm Clark, Senior Scientist, Evaluation, Economics and Laboratory Services Branch, Ministry of Environment, Lands and Parks, 4th Floor, 777 Broughton Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-9947 *Facsimile:* (604) 356-7197
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - water (certified reference samples, metals, general ions, nutrients)
- 3b. **Data acquisition methods:** Reports. Laboratory analysis results.
- 3c. **Geographic coverage:** British Columbia (some results apply to the Yukon as well).
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1985 to present.
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** Macintosh.
5. **Restrictions and conditions:** Lab-specific data are confidential, summary reports are not.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Summary reports.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Environmental Science; Pacific; Water quality
11. **Additional information:** FPQA and LRTAP data originate from Burlington and pertain to the Canada-BC Water Quality Monitoring Agreement.

Resource Folios for Aquatic Plant Management in BC

RFA-0096-E

1. **Summary description:** These folios outline the physical characteristics of important water bodies likely to be adversely affected by the introduction of Eurasian watermilfoil.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Dr. Peter Newroth, Water Management Division, Water Quality Branch, Ministry of Environment, Lands and Parks, 3rd Floor, 765 Broughton Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-9495 *Facsimile:* (604) 356-8298
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - aquatic plants (location, biota, taxonomy, biological nuisance management)
 - Eurasian watermilfoil (presence/absence)

- 3b. **Data acquisition methods:** Manual. Data input by Ministry staff.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Over 40 lakes, specific water bodies (freshwater, surface).
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** Last updated in 1981.
- 4a. **Database storage format:** Hardcopy, maps.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** Charge for photocopy.
7. **Corresponding printed sources:** Publications.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Ecology; Pacific; Plants
11. **Additional information:** Replaced in part by Aquatic Plant Management Data derived from more recent surveys.

Site Information System

SIS-0511-E

1. **Summary description:** To track environmentally pertinent information on contaminated sites.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Roger Ord, Soil Hydrogeology Specialist, Contaminated Sites Unit, Industrial Wastes and Hazardous Contaminants Branch, Ministry of Environment, Lands and Parks, 3rd Floor, 777 Broughton Street, Victoria, B.C. V8V 1X4
Phone: (604) 356-8386 *Facsimile:* (604) 387-9935
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - site (location)
 - contaminant levels as related to criteria for managing contaminated sites in British Columbia
 - remedial technologies applied against specific contaminants at specific sites
 - legal events
- 3b. **Data acquisition methods:** Survey and monitoring. Staff receive reports or carry out site inspections.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1988 to present.
- 3f. **Update frequency:** As information received (see 11).
- 4a. **Database storage format:** Hardcopy, diskette, on-line access.
- 4b. **Database computer environment:** HP UNIX server, ORACLE.
5. **Restrictions and conditions:** Legal restrictions exist.
6. **Price information:** Some charges to users.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Pacific; Regulation; Contaminants
11. **Additional information:**
 1. System is updated as Ministry receives a site profile according to Bill 26 (contaminated site legislation).
 2. System to be running in fall, 1994.

Snow Pillow Data

SPD-0253-E

1. **Summary description:** The purpose of the network is to determine the water content of accumulated winter snow during the winter season and particularly prior to snowmelt in order to estimate the subsequent streamflow. This is of great benefit to those concerned with hydro-electric power, flood control, irrigation and domestic and municipal water supply. All snow pillow stations also record temperature and precipitation and transmit data via DCP.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Helmut Ovie, Technician, Water Management, Ministry of Environment, Lands and Parks, 4th Floor, 765 Broughton Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-7669 *Facsimile:* (604) 356-5496
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - precipitation
 - temperature
 - snow water equivalent
- 3b. **Data acquisition methods:** Snow pillow data collection platform (DCP), GOES Satellite. Snow pillows are 3 or 3.5 m diameter vinyl coated fabric bags filled with a 40 percent propylene glycol 60 percent water mixture. A buried rubber hose with valves and fittings leads from the snow pillow to the base of the manometer tube attached to the side of the scaffold tower. The sensor is an incremental shaft encoder mounted in the shelter. Resolution is 0.01 ft per count and counts are accumulated by the DCP's up/down counter. During each service trip the shaft encoder tape reading is recorded and compared to the DCP reading. Sensor readings are recorded by the DCP each hour and transmitted every 3 hours.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1970 to present.
- 3f. **Update frequency:** Daily.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** VAX 7630, accessed by terminals.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Hardcopy listings.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Hydrology; Pacific; Water
11. **Additional information:**
 1. The Water Management Branch (WMB) of the BC Ministry of Environment is the agency of the provincial government charged with the responsibility of managing the water resources of BC. The greatest proportion of British Columbia's major river streamflow originates from the spring and summer melting of mountain snow. The WMB therefore has a need to know the water content of the winter snow accumulation in the mountains and thus operates a network of snow survey and snow pillow stations.
 2. Snow Pillow Data can be queried from the Snow Survey System, but is not part of that database.

Snow Survey System

SSS-0135-E

1. **Summary description:** Snow depth and snow water content of snow packs for British Columbia.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Robin Wyman, Research Officer, Water Management, Ministry of Environment, Lands and Parks, 4th Floor, 765 Broughton Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-9473 Facsimile: (604) 356-5496
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- snow depth (water equivalent)
- 3b. **Data acquisition methods:** Manual. Federal Snow Sampler.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1935 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** VAX 7630, accessed by PC terminals.
5. **Restrictions and conditions:** See data centre contact.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Snow Survey Bulletin.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Hydrology; Landscape; Pacific
11. **Additional information:**
 1. Computer system could be accessed by external users by special arrangements, but data is readily available through the contact.
 2. Snow Survey Station Index constitutes a summary of the Snow Survey System and is accessed through: Mr. David Thompson, Senior Technician, Water Management, Ministry of Environment, Lands and Parks, Phone: (604) 387-9478, Facsimile: (604) 356-5496.

Special Waste Management System

SPC-0524-E

1. **Summary description:** To record manifest forms from generators and transporters of waste.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Ms. Irene Cleary, Data Management Clerk, Environmental Protection Division, Ministry of Environment, Lands and Parks, 1106-1175 Douglas Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-2049 Facsimile: (604) 953-3856
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- generator of waste (consignee, carrier)
- waste information (type, quantity)
- 3b. **Data acquisition methods:** Monitoring. Manifest forms.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Municipality.
- 3e. **Period of record:** 1987 to present.
- 3f. **Update frequency:** Daily.
- 4a. **Database storage format:** Tapes.
- 4b. **Database computer environment:** VAX, DATARIEVE.

5. **Restrictions and conditions:** Some restrictions apply.
6. **Price information:** \$100.00 per disk for 6 months of data.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Pacific; Transportation; Waste;
11. **Additional information:** Database to be replaced by the Special Waste Information System (SWIS) currently under development.

Special Waste System (generators, transporters)

SPW-0525-E

1. **Summary description:** To record provincial identification numbers issued and registered for transporters and generators of waste.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Ms. Irene Cleary, Data Management Clerk, Environmental Protection Division, Ministry of Environment, Lands and Parks, 1106-1175 Douglas Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-2049 Facsimile: (604) 953-3856
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- generators (city, waste, quantity)
- transporters (waste, transport licence number, company name, city)
- 3b. **Data acquisition methods:** Monitoring. Data provided from applications.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Municipality.
- 3e. **Period of record:** 1988 to present.
- 3f. **Update frequency:** Daily.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, FOXPRO.
5. **Restrictions and conditions:** Some restrictions apply.
6. **Price information:** \$100.00 per disk for generator data.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Pacific; Transportation; Waste;
11. **Additional information:** Database to be replaced by the Special Waste Information System (SWIS) currently under development.

Sportfishing Regulations Database

SRD-0521-E

1. **Summary description:** A listing of current and historical regulations pertaining to sportfishing.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Ms. Jennifer Warris, Regulation Coordinator, Fisheries Branch, Ministry of Environment, Lands and Parks, 780 Blanshard Street, Victoria, B.C. V8V 1X4
Phone: (604) 356-7285 Facsimile: (604) 387-9750
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- waterbody (name, number, watershed code)
- regulation (type, authority, legal reference)

- gear
- catch limit
- water closure
- 3b. Data acquisition methods:** Not applicable (see 11).
- 3c. Geographic coverage:** British Columbia.
- 3d. Geographic units of measure:** Lakes, rivers.
- 3e. Period of record:** 1931 to present.
- 3f. Update frequency:** Every two years or as required.
- 4a. Database storage format:** Not applicable (see 11).
- 4b. Database computer environment:** Not applicable (see 11).
- 5. Restrictions and conditions:** None.
- 6. Price information:** None.
- 7. Corresponding printed sources:** Fishery regulations synopsis.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Pacific; Wildlife; Fish; Regulation
- 11. Additional information:** This database is in the early planning stages.

State of the Environment Hydrology Files

SOE-0497-E

- 1. Summary description:** To record hydrology data at long term stream stations.
- 2a. Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. Database contact:** Mr. Hal Coulson, Manager, Surface Water Hydrology Section, Hydrology Branch, Ministry of Environment, Lands and Parks, 765 Broughton Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-9481 *Facsimile:* (604) 356-5496
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - air temperature
 - precipitation
 - stream flow
- 3b. Data acquisition methods:** Monitoring. Information input from other databases.
- 3c. Geographic coverage:** British Columbia.
- 3d. Geographic units of measure:** UTM coordinates, latitude and longitude.
- 3e. Period of record:** 1900 to present.
- 3f. Update frequency:** Monthly.
- 4a. Database storage format:** Hard copy, diskette.
- 4b. Database computer environment:** PC, Macintosh. EXCEL 4.0.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Pacific; Hydrology; Water
- 11. Additional information:** Data available for 10 stations throughout British Columbia.

Stream and Lake Inventory

SLI-0496-E

- 1. Summary description:** To provide data on physical and biological attributes of lakes and streams in British Columbia.

- 2a. Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. Database contact:** Mr. Ron Ptolemy, Senior Biologist, Conservation Section, Fisheries Branch, Ministry of Environment, Lands and Parks, 3rd Floor, 780 Blanshard Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-9582 *Facsimile:* (604) 387-9750
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - lake/stream (volume, movement, velocity, depth distribution, location)
 - time
 - availability
 - ownership
 - data (physical, chemical, biological)
- 3b. Data acquisition methods:** Survey. Full collection of biological and physical data.
- 3c. Geographic coverage:** British Columbia.
- 3d. Geographic units of measure:** UTM coordinates.
- 3e. Period of record:** Late 1950s for lakes and late 1970s for streams.
- 3f. Update frequency:** As data is collected.
- 4a. Database storage format:** Hardcopy.
- 4b. Database computer environment:** VAX.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Biology; Hydrology; Pacific
- 11. Additional information:** None.

Summary Hunting Statistics Database

SHS-0301-E

- 1. Summary description:** The SSDB provides menu driven access to data copied from multiple data bases. The SSDB contains a subset of the following databases: Hunter Sample, Compulsory Inspection, Limited Entry Hunting Survey, Guide-Outfitter Declaration System, Tooth Return Program, Problem Wildlife Reporting System.
- 2a. Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. Database contact:** Mr. Darren E. McKellar, Habitat Data Manager, Wildlife Branch, Ministry of Environment, Lands and Parks, 780 Blanshard Street, Victoria, B.C. V8V 1X4
Phone: (604) 356-5072 *Facsimile:* (604) 356-9145
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - parameters contained in the following databases
 - hunter sample survey
 - compulsory inspection
 - guide-outfitter declarations
 - limited entry survey
 - tooth return program
 - problem wildlife reports
 - historical game check data from obsolete system
- 3b. Data acquisition methods:** Various.
- 3c. Geographic coverage:** British Columbia.
- 3d. Geographic units of measure:** Various.
- 3e. Period of record:** 1976 to present.
- 3f. Update frequency:** As required.
- 4a. Database storage format:** Diskette.
- 4b. Database computer environment:** VAX.

5. **Restrictions and conditions:** Authorization needed.
6. **Price information:** Normally free but this may change.
7. **Corresponding printed sources:** Multiple, customizable reports and output files related to hunting activity and animal mortality.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Pacific; Regulation; Wildlife
11. **Additional information:** None.

System for Environmental Assessment and Management

SEA-0127-E

1. **Summary description:** Environmental Quality Monitoring Information. Contains physical/chemical monitoring data for ambient and discharge sites.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Min Pak, Evaluation, Economics and Laboratory Services Branch, Environmental Protection Division, Ministry of Environment, Lands and Parks, 777 Broughton Street, Victoria, B.C. V8V 1X5
Phone: (604) 387-9972 Facsimile: (604) 356-6337
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - physical
 - chemical
 - microbiological (minimal)
- 3b. **Data acquisition methods:** Monitoring. Data input by Ministry staff.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1985 to present. SEAM contains some pre-1985 data.
- 3f. **Update frequency:** Daily.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** Macintosh, PC.
5. **Restrictions and conditions:** None.
6. **Price information:** There is a charge (see 11).
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** User's manual.
10. **Keywords:** Environmental Science; Pacific; Pollution
11. **Additional information:** Minimum \$50.00 per request to consultants or general public. No charge to government agencies or educational institutions.

Ungulate Inventory Database

UID-0304-E

1. **Summary description:** Primary database used for recording ungulate inventory information that has been acquired in the field. The system allows for subsequent analyses of current and historical data.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Darren E. McKellar, Habitat Data Manager, Wildlife Branch, Ministry of Environment, Lands and Parks, 780 Blanshard Street, Victoria, B.C. V8V 1X4
Phone: (604) 356-5072 Facsimile: (604) 356-9145

- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - sex/age composition
 - relative density
 - absolute abundance
 - incidental sightings
- 3b. **Data acquisition methods:** Wildlife field surveys. Data collected by departmental staff.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** UTM coordinates.
- 3e. **Period of record:** 1976 to present.
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Hardcopy, tape.
- 4b. **Database computer environment:** VAX, DATATRIEVE.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** User's guide available from main menu.
10. **Keywords:** Mammals; Pacific; Wildlife
11. **Additional information:** Modifications planned to expand from ungulates to all large mammals and provide remote data entry. Field specifications for exporting data into SAS, EXCEL, and DBASE IV available.

Ungulate Winter Flight Maps

UWF-0491-E

1. **Summary description:** To record ungulates and ungulate sign and snow conditions on transects flown during the winter months.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Andy Stewart, Wildlife Biologist, Habitat Inventory Section, Wildlife Branch, Ministry of Environment, Lands and Parks, 780 Blanshard Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-9780 Facsimile: (604) 387-6750
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - ungulate (distribution, abundance)
 - snow conditions
- 3b. **Data acquisition methods:** Field survey observations. Data collected and input by Ministry staff.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1970 to present.
- 3f. **Update frequency:** Irregularly.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Maps.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Pacific; Wildlife; Habitats;
11. **Additional information:** None.

Vertebrate Groups Database

VGD-0383-E

1. **Summary description:** Relative abundance statistics of vertebrate groups in 66 protected areas in British Columbia.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** GIS Coordinator, Parks, Ministry of Environment, Lands and Parks, 2nd Floor, 800 Johnson Street, Victoria, B.C. V8V 1X4
Phone: (604) 356-6781 Facsimile: (604) 387-5757
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - protected area (name, area)
 - elevational range
 - ecoprovince
 - disturbance factor
 - location
 - numbers of rare, common and transient species of each group in each protected area
 - list of the species of each group in each area
- 3b. **Data acquisition methods:** Literature review. Data input by departmental staff.
- 3c. **Geographic coverage:** 66 protected areas in British Columbia.
- 3d. **Geographic units of measure:** Ecoprovince, protected area.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** Not applicable.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC, DBASE IV.
5. **Restrictions and conditions:** None.
6. **Price information:** Policy under development.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** Brief descriptions of the database fields are available.
10. **Keywords:** Biota; Prairies; Wildlife
11. **Additional information:** None.

Vertebrate Species Database

SPE-0381-E

1. **Summary description:** The relative abundance of vertebrate species in selected protected areas in British Columbia.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** GIS Coordinator, Parks, Ministry of Environment, Lands and Parks, 2nd Floor, 800 Johnson Street, Victoria, B.C. V8V 1X4
Phone: (604) 356-6781 Facsimile: (604) 387-5757
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - species (group, family, genus, species code, common name)
 - provincial rarity status
 - nest type and location
 - relative abundance in 66 protected areas in B.C.
- 3b. **Data acquisition methods:** Literature review. Data input by departmental staff.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** Not applicable.

- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC, DBASE IV.
5. **Restrictions and conditions:** None.
6. **Price information:** Policy under development.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** A brief description of the database fields.
10. **Keywords:** Biota; Pacific; Wildlife
11. **Additional information:** None.

WASTE

WAS-0252-E

1. **Summary description:** Permit/approval administration and tracking system. Contains permittee information and permit criteria.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Min Pak, Evaluation, Economics and Laboratory Services Branch, Environmental Protection Division, Ministry of Environment, Lands and Parks, 777 Broughton Street, Victoria, B.C. V8V 1X5
Phone: (604) 387-9972 Facsimile: (604) 356-6337
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - permit/approval (administration information, technical criteria)
- 3b. **Data acquisition methods:** Permit/approval document. Data input by Ministry staff.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Latitude and longitude, MOE Regional Office Boundaries.
- 3e. **Period of record:** 1990 to present. The WASTE System became operational in 1990. Information for all permits/approvals issued (including those issued before 1990) by the program.
- 3f. **Update frequency:** As information changes.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** Macintosh, PC.
5. **Restrictions and conditions:** None.
6. **Price information:** There is a charge (see 11).
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** User's manual.
10. **Keywords:** Environmental Science; Pacific; Waste
11. **Additional information:** Minimum \$50.00 per request to consultants and general public. No charge to government agencies or educational institutions.

Water Quality Check Program Data

WQC-0517-E

1. **Summary description:** This is a subsidized program for well water quality testing.
- 2a. **Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. **Database contact:** Mr. Rod Zimmerman, Senior Groundwater Hydrologist, Water Management Division, Ministry of Environment, Lands and Parks, 765 Broughton Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-9464 Facsimile: (604) 356-5496
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - water quality (physical, chemical and biological parameters)

- 3b. Data acquisition methods:** Monitoring samples. The data are provided voluntarily by well water users.
- 3c. Geographic coverage:** British Columbia.
- 3d. Geographic units of measure:** NTS block, street address.
- 3e. Period of record:** 1980 to 1993.
- 3f. Update frequency:** Discontinued.
- 4a. Database storage format:** Hardcopy forms.
- 4b. Database computer environment:** Not applicable.
- 5. Restrictions and conditions:** Some restrictions may apply.
- 6. Price information:** Charges apply.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Pacific; Hydrology; Water
- 11. Additional information:** None.

Water Quality Criteria, Assessments and Objectives Reports

WQC-0010-E

- 1. Summary description:** Criteria reports are safe conditions (physical, chemical, biological and bacterial) to protect water uses province-wide. Objective reports are the criteria applied to specific bodies of water.
- 2a. Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. Database contact:** Mr. Roland Rocchini, Water Management Division, Water Quality Branch, Ministry of Environment, Lands and Parks, 3rd Floor, 765 Broughton Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-9502 *Facsimile:* (604) 356-8298
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- ambient marine/sediment quality (location, physical, chemical, biological, bacterial)
- 3b. Data acquisition methods:** Literature, sampling. For criteria reports, data are mainly collected from the literature. For objective reports, data are mainly collected from sampling of ambient water, discharges to water and water flows.
- 3c. Geographic coverage:** River reach or marine area.
- 3d. Geographic units of measure:** Watersheds and discharges.
- 3e. Period of record:** 1985 to present.
- 3f. Update frequency:** Updated as reports produced.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** Macintosh, MSWORD.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** Various reports.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Hydrology; Pacific; Water quality
- 11. Additional information:** 53 reports in total. 17 Criteria reports and 36 Assessment and Objective reports completed.

Water Rights Information System

WRI-0520-E

- 1. Summary description:** To record information pertaining to water licencing in British Columbia.
- 2a. Responsible organization:** Ministry of Environment, Lands and Parks

- 2b. Database contact:** Ms. Alison Crone, Manager, Information Systems, Water Management Division, Ministry of Environment, Lands and Parks, 765 Broughton Street, Victoria, B.C. V8V 1X4
Phone: (604) 953-3813 *Facsimile:* (604) 356-5496
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- water (use, licenses, points of diversion)
- clients
- 3b. Data acquisition methods:** Monitoring. Information taken from client applications.
- 3c. Geographic coverage:** British Columbia.
- 3d. Geographic units of measure:** NTS grid.
- 3e. Period of record:** 1990 to present.
- 3f. Update frequency:** Continually.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** VAX, RDB, ORACLE.
- 5. Restrictions and conditions:** None.
- 6. Price information:** Some charges may apply.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Pacific; Hydrology; Regulation
- 11. Additional information:** The WRIS system interconnects three databases: the Water Licencing Information System, the Point of Interest (water diversion) database and the Water Revenue Management System.

Water Well Location Mapping

WWL-0125-E

- 1. Summary description:** Locations of water wells.
- 2a. Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. Database contact:** Mr. Rod Zimmerman, Senior Advanced Groundwater Hydrologist, Water Management Division, Ministry of Environment, Lands and Parks, 4th Floor, 765 Broughton Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-9464 *Facsimile:* (604) 356-5496
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- water well locations
- 3b. Data acquisition methods:** Not applicable.
- 3c. Geographic coverage:** Part of British Columbia.
- 3d. Geographic units of measure:** Lot.
- 3e. Period of record:** 1961 to 1991.
- 3f. Update frequency:** On project basis.
- 4a. Database storage format:** Hardcopy maps.
- 4b. Database computer environment:** Not applicable.
- 5. Restrictions and conditions:** None.
- 6. Price information:** Charge of photocopy.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Hydrology; Pacific; Water
- 11. Additional information:** None.

Water Well Record Files

WWR-0519-E

- 1. Summary description:** To record water wells throughout British Columbia.

- 2a. Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. Database contact:** Mr. Mike Gallo, Technical Assistant, Water Management Division, Ministry of Environment, Lands and Parks, 765 Broughton Street, Victoria, B.C. V8V 1X4
Phone: (604) 387-9456 Facsimile: (604) 356-5496
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- well (owner, location, availability, volume, movement)
 - data parameters (physical, chemical, biological)
- 3b. Data acquisition methods:** Voluntary monitoring. Data received on a voluntary basis from well drillers.
- 3c. Geographic coverage:** British Columbia.
- 3d. Geographic units of measure:** Legal description.
- 3e. Period of record:** 1961 to present.
- 3f. Update frequency:** Irregularly.
- 4a. Database storage format:** Hardcopy, microfiche.
- 4b. Database computer environment:** VAX.
- 5. Restrictions and conditions:** Some restrictions may apply.
- 6. Price information:** Some charges may apply.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** User's guide.
- 10. Keywords:** Pacific; Hydrology; Water
- 11. Additional information:** None.

Wildfur Harvest System

WFH-0303-E

- 1. Summary description:** Provides record of fur harvest by assigned trapper number and management unit and activity of fur traders and trappers. This activity is required by Wildlife Act regulation and provides record of all fur and animal parts traded, all licensed fur traders and trappers in the province. This information provides regional access to vital fur harvest data in a timely manner to allow monitoring of trapping season results and setting of subsequent trapping seasons.
- 2a. Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. Database contact:** Mr. Darren E. McKellar, Habitat Data Manager, Wildlife Branch, Ministry of Environment, Lands and Parks, 780 Blanshard Street, Victoria, B.C. V8V 1X4
Phone: (604) 356-5072 Facsimile: (604) 356-9145
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- fur harvest (trapper number, management unit)
 - activity of fur traders and trappers
- 3b. Data acquisition methods:** Monitoring. Trapper and trader reports and licenses.
- 3c. Geographic coverage:** British Columbia.
- 3d. Geographic units of measure:** Fur management area.
- 3e. Period of record:** 1985 to present.
- 3f. Update frequency:** As required.
- 4a. Database storage format:** Hardcopy.
- 4b. Database computer environment:** VAX.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** User's manual.
- 10. Keywords:** Harvesting; Pacific; Wildlife
- 11. Additional information:** Does not include complete record of aboriginal trappers or their harvest.

Wildlife Land System

WLB-0307-E

- 1. Summary description:** An inventory that maintains properties specifically held for Fish and Wildlife Programs, including data necessary for administrative and management activities in both the short and long term.
- 2a. Responsible organization:** Ministry of Environment, Lands and Parks
- 2b. Database contact:** Mr. Darren E. McKellar, Habitat Data Manager, Wildlife Branch, Ministry of Environment, Lands and Parks, 780 Blanshard Street, Victoria, B.C. V8V 1X4
Phone: (604) 356-5072 Facsimile: (604) 356-9145
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- tenure type
 - parcel (size, region, date of acquisition, legal description)
 - geographical location (latitude and longitude, UTM)
- 3b. Data acquisition methods:** Internal monitoring of activities.
- 3c. Geographic coverage:** British Columbia.
- 3d. Geographic units of measure:** Latitude and longitude.
- 3e. Period of record:** Not applicable.
- 3f. Update frequency:** As required.
- 4a. Database storage format:** Hardcopy.
- 4b. Database computer environment:** VAX.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Habitats; Pacific; Wildlife
- 11. Additional information:** None.



Ministry of Forests

BC Forest Service Fire Weather Network

FSF-0209-E

- 1. Summary description:** The network provides weather data which is used as a basis for decisions in fire prevention, preparedness and suppression operations as well as other fire management activities. The network inputs weather data to the Canadian Forest Fire Danger Rating System (CFFDRS) which is the primary fire management decision-making tool in use in Canada.
- 2a. Responsible organization:** Ministry of Forests
- 2b. Database contact:** Mr. Mike Winder, Protection Branch, Forest Service, Ministry of Forests, 31 Bastion Square, Victoria, B.C. V8W 3E7
Phone: (604) 387-8730 Facsimile: (604) 387-5685
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- precipitation
 - air temperature
 - wind (speed, direction)
 - relative humidity
- 3b. Data acquisition methods:** 450 automated recording weather stations which are arranged in clusters or as stand alone units

throughout British Columbia. Temperature measured with an FTS/TH61 sheltered thermistor. Precipitation measured with: FTS/RGT or Sierra Misco RG61 tipping bucket rain gauge or a Sierra Misco 2500 E heated rain gauge. Hourly amounts are accumulations of TBRG 0.25 mm tips. Wind speed measured with: Downeaster or an FTS/W1-WSM reed switch anemometer; wind direction measured with: Downeaster potentiometer wind vane or an FTS/W1-WDM potentiometer wind vane. Wind speed is a 10-minute average, wind direction is the most frequent direction over the same 10 minutes. Relative humidity measured with FTS/TH61 sensor (sheltered by a solar screen) or an FTS/THS-1 sensor with an integral sintered filter and solar screen.

3c. Geographic coverage: British Columbia.

3d. Geographic units of measure: 450 automated recording weather stations.

3e. Period of record: Not applicable.

3f. Update frequency: Daily, hourly.

4a. Database storage format: Hard disk.

4b. Database computer environment: VAX.

5. Restrictions and conditions: None.

6. Price information: Charges for full network access; none for casual reports.

7. Corresponding printed sources: Canadian Forest Fire Danger Rating System outputs (fuel moisture codes, fire behaviour indices).

8. Languages: English.

9. User aids available: None.

10. Keywords: Forestry; Pacific; Weather

11. Additional information:

1. Fire management and control decisions based on the Canadian Forest Fire Danger Rating System (CFFDRS); the Branch operates a network of real-time reporting weather stations for input to the CFFDRS as well as a basis for local fire weather forecasting.
2. The BC Forest Service Fire Weather Network is nearing the final stages of development. Three of six regional components are complete with most of the outstanding development in the northern half of the province.
3. A progressive upgrading to more capable and flexible data loggers has begun and will continue over the next few years. One of the BCFS goals is to provide sensor capability at selected sites based on Forest Protection needs as well as the needs of others within the Forest Service and other agencies. A barometer has already been tested and will be deployed at strategic sites.
4. Automated Weather Link: 200 hourly reporting stations, UHF telemetry to central VAX computer. 250 daily reporting stations, VHF telemetry to 43 district offices then loaded from PC's to central VAX.

BC Forestry Research Branch FRDA Climate Network

FRD-0220-E

1. **Summary description:** The British Columbia Ministry of Forests, Research Branch, established climate stations in various regions of the province, under the Forest Resource Development Agreement (FRDA), to improve seedling regeneration after forest harvesting. Environmental limitations are a major reason for failure of seedlings to establish and grow. Measurements were made to define the current climate and how site preparation treatments modify the seedlings microclimate.
- 2a. **Responsible organization:** Ministry of Forests

2b. Database contact: Mr. Dave Spittlehouse, Forest Climatologist, Research Branch, Ministry of Forests, 31 Bastion Square, Victoria, B.C. V8W 3E7

Phone: (604) 387-3453 Facsimile: (604) 387-0046

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- daily temperature (maximum, minimum)
- daily total rainfall
- solar radiation
- wind speed (average, maximum)
- relative humidity (maximum, minimum)
- photosynthetically active radiation

3b. Data acquisition methods: Manual and Campbell Scientific data logger measurements. Air and soil temperatures measured. Thermistors equivalent to Campbell Scientific 101 and 107 probes. Thermocouples also used. Sierra Misco or Texas Electronic tipping bucket rain gauge. Only valid during snow free season Met One Inc model 013 or 014, or RM Young Wind sentry

3c. Geographic coverage: British Columbia.

3d. Geographic units of measure: Latitude and longitude and elevation.

3e. Period of record: 1984 to present. Various combinations of the period 1984-1993.

3f. Update frequency: Not applicable.

4a. Database storage format: Hard disk, diskette.

4b. Database computer environment: PC, DBASE.

5. Restrictions and conditions: None.

6. Price information: No charge.

7. Corresponding printed sources: Catalogue of station name, location, measurements and contacts available.

8. Languages: English.

9. User aids available: None.

10. Keywords: Climate; Forestry; Pacific

11. Additional information:

1. As part of a study by the Ministry of Forests, sites were selected around BC (dependent on area and vegetation types), each identified as having regeneration problems. Sites established by individual researchers and projects initiated in different years. Most researchers had initial advice from Ministry climatologists on measurements to make and procedures to use.
2. Quality control varies with the individual researcher, as does data summary and storage.
3. Climate measurements made in clearcuts of varying size (usually large) and there was no control of the vegetation regrowth during the summer, or the development of a snow pack during the winter. Some stations ran for 12 months of the year, however, rainfall measurements are only valid during the snow free season. Other stations ran from May to October. A total of 62 stations were in the network.

BC Silviculture Coastal Seed Orchards Climate Network

CSO-0210-E

1. **Summary description:** The Silviculture Branch of the Ministry of Forests operates 5 orchards on the British Columbia coast to produce seed for the Ministry and to genetically improve seed characteristics. The reproductive and growing cycles of seed production depend, among other things, on climate factors. It is therefore necessary for the orchards to record the daily weather conditions in order to determine growth/reproduction/climate relations.

2a. **Responsible organization:** Ministry of Forests

2b. Database contact: Mr. Brian Barber or Mr. David Reid, Seed Orchard Project Officer, Silviculture Branch, Ministry of Forests, RR#3 7380 Puckle Road, Saanich, B.C. V0S 1M0

Phone: (604) 652-5600 *Facsimile:* (604) 652-4204

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- temperature (maximum/minimum)
- relative humidity (maximum/minimum)
- precipitation
- wind (speed average/maximum, direction)

3b. Data acquisition methods: Campbell Scientific data logger with manufacturers temperature - relative humidity probe. Temperature sampled every minute. The maximum/minimum and mean value for the day are obtained. Daily observations taken at midnight local time. A Campbell Scientific datalogger with a tipping bucket rain gauge provides 24 hr total precipitation measured at midnight local time. Campbell Scientific data logger with Young wind sensor. Wind speed scanned every minute. The output every hour is the mean wind speed and the maximum/minimum value. The mean vector wind direction calculated by the CSI program.

3c. Geographic coverage: British Columbia.

3d. Geographic units of measure: Climate stations (see 11).

3e. Period of record: 1989 to present.

3f. Update frequency: Continually, every 3 months.

4a. Database storage format: Hardcopy, diskette.

4b. Database computer environment: PC.

5. Restrictions and conditions: None.

6. Price information: No charge.

7. Corresponding printed sources: Graphs of daily temperature, wind speed and direction, precipitation and relative humidity.

8. Languages: English.

9. User aids available: None.

10. Keywords: Climate; Forestry; Pacific

11. Additional information:

1. The five orchards are located at Saanich, Surrey, Cobble Hill, Bowser, and Campbell River. There is one climate station in each of the orchards except Cobble Hill.
2. It is planned to establish a climate program at the Cobble Hill Seed Orchard in 1994.
3. Each of the seed orchards operates 1 climate station at their site and the climate data are archived on each orchard's individual microcomputer. Weather data at Surrey is collected by Nursery on a hydro-thermograph.

Ecological Classification Database and Analysis System

ECD-0479-E

1. Summary description: System used to record ecological plot data, specifically vegetation and site information.

2a. Responsible organization: Ministry of Forests

2b. Database contact: Mr. Alan Banner, or, Mr. Del Meidinger, Research Ecologists, Integrated Resources, Management Section, Research Branch, Ministry of Forests, 31 Bastion Square, Victoria, B.C. V8W 3E7

Phone: (604) 387-6688 *Facsimile:* (604) 387-0046

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- plant species (composition, cover)
- site data (soils, landform)

3b. Data acquisition methods: Field surveys and monitoring. Field work by ministry staff. Data also input from other provincial databases.

3c. Geographic coverage: British Columbia.

3d. Geographic units of measure: Latitude and longitude.

3e. Period of record: 1975 to present.

3f. Update frequency: Continually.

4a. Database storage format: Hardcopy, diskette.

4b. Database computer environment: PC, DBASE IV.

5. Restrictions and conditions: None.

6. Price information: No charge.

7. Corresponding printed sources: Regional Ecological Classification Field Guides for British Columbia. Ecosystem of British Columbia.

8. Languages: English.

9. User aids available: None.

10. Keywords: Pacific; Ecology; Plants

11. Additional information: This database is interactive with V-TAB, a vegetation summary and analysis program.

Forest Atlas Map Automation Project

FAM-0482-E

1. Summary description: This database provides Forest and Range Act tenure and official boundary information.

2a. Responsible organization: Ministry of Forests

2b. Database contact: Ms. Olga Kopriva, Draughting Superintendent, Draughting Section, Timber Harvesting Branch, Ministry of Forests, 3rd Floor, 1450 Government Street, Victoria, B.C. V8W 3E7

Phone: (604) 387-8332 *Facsimile:* (604) 387-6445

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- tenure
- official boundaries

3b. Data acquisition methods: Survey. Ground sampling by foresters.

3c. Geographic coverage: British Columbia.

3d. Geographic units of measure: UTM coordinates, latitude and longitude.

3e. Period of record: 1930 to present.

3f. Update frequency: Daily.

4a. Database storage format: Hardcopy, diskette.

4b. Database computer environment: PC, MICROSTATION.

5. Restrictions and conditions: None.

6. Price information: No charge.

7. Corresponding printed sources: Maps.

8. Languages: English.

9. User aids available: None.

10. Keywords: Forestry; Geographic Information System; Pacific;

11. Additional information: Approximately one third of the province is mapped digitally using Intergraph (IGDS) software.

Forest Inventory

FOR-0484-E

1. Summary description: Inventory comprised of 7,000, 1:20 000 scale digital maps depicting forest resource inventory information British Columbia.

2a. Responsible organization: Ministry of Forests

2b. Database contact: Digital Data Sales and Distribution, Forest Inventory Branch, Ministry of Forests, 722 Johnson Street, Victoria, B.C. V8W 3E7

Phone: (604) 387-5261 *Facsimile:* (604) 387-5999

- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- forest cover (species, age, height, site, index, volume, area)
 - recreation (range, inventory)
 - biogeoclimatic boundaries
 - Ministry of Forests administrative boundaries
 - base (water features)
 - roads
 - toponymy
- 3b. Data acquisition methods:** Field survey and sampling. Survey data captured digitally along with air photo interpretation.
- 3c. Geographic coverage:** British Columbia.
- 3d. Geographic units of measure:** Forest cover (5 hectare grid), non productive cover (2.5 hectare grid).
- 3e. Period of record:** 1989 to present.
- 3f. Update frequency:** Continually.
- 4a. Database storage format:** Diskette, tape.
- 4b. Database computer environment:** PC, GIS software, Intergraph IGDS.
- 5. Restrictions and conditions:** Restricted to British Columbia Government Ministries.
- 6. Price information:** \$250.00 per digital mapsheet.
- 7. Corresponding printed sources:** Provincial summary statistics and reports.
- 8. Languages:** English.
- 9. User aids available:** Forest Inventory Manual, Forest Inventory Data Dictionary.
- 10. Keywords:** Pacific; Geographic Information System; Forestry;
- 11. Additional information:** Each mapsheet is updated every two years (3,500 per year).

Forest Tenure Administration System

FTA-0483-E

- 1. Summary description:** To track forest tenure administration and events that take place during the life cycle of the tenure.
- 2a. Responsible organization:** Ministry of Forests
- 2b. Database contact:** Mr. Peter Spearman, Manager, Harvesting Systems, Timber Harvesting Branch, Ministry of Forests, 3rd Floor, 1450 Government Street, Victoria, B.C. V8W 3E7
Phone: (604) 387-6782 Facsimile: (604) 387-6445
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- tenure obligations (license, cutting permit, cut block)
 - events during tenure (cut block issues, inspections, policies and procedures)
- 3b. Data acquisition methods:** Monitoring. Information collected in district offices.
- 3c. Geographic coverage:** British Columbia.
- 3d. Geographic units of measure:** NTS grid.
- 3e. Period of record:** 1992 to present.
- 3f. Update frequency:** Continually.
- 4a. Database storage format:** Hardcopy.
- 4b. Database computer environment:** Mainframe, VMS, SQL.
- 5. Restrictions and conditions:** None.
- 6. Price information:** Not applicable.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Pacific; Forestry; Regulation;
- 11. Additional information:** None.

Major License Silviculture Information System

MLS-0480-E

- 1. Summary description:** MLSIS is an on-line integrated data entry and reporting system to satisfy information needs of forest service and major license holders.
- 2a. Responsible organization:** Ministry of Forests
- 2b. Database contact:** Mr. Steven Hunt, SIS Operations Supervisor, Silviculture Branch, Ministry of Forests, 3rd Floor, 31 Bastion Square, Victoria, B.C. V8W 3E7
Phone: (604) 387-8916 Facsimile: (604) 387-1467
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- Form A; tenure and preharvest silviculture prescription
 - Form B; denudation and silviculture
 - Form C; forest cover
 - Form D; cost
- 3b. Data acquisition methods:** Forms. Data entry forms via electronic data interchange.
- 3c. Geographic coverage:** British Columbia.
- 3d. Geographic units of measure:** Latitude and longitude.
- 3e. Period of record:** 1989 to 1993.
- 3f. Update frequency:** Quarterly.
- 4a. Database storage format:** Hardcopy.
- 4b. Database computer environment:** PC.
- 5. Restrictions and conditions:** Data request required.
- 6. Price information:** Not applicable.
- 7. Corresponding printed sources:** Guide to Completing FS708 Forms (see 4a).
- 8. Languages:** English.
- 9. User aids available:** MLSIS User's Guide.
- 10. Keywords:** Pacific; Forestry; Regulation
- 11. Additional information:** None.

Research Water Quality Monitoring

RWQ-0481-E

- 1. Summary description:** To record research in representative watersheds in British Columbia on water quality impacts, channel morphology change and fish habitat change resulting from logging practices.
- 2a. Responsible organization:** Ministry of Forests
- 2b. Database contact:** Mr. Dan Hogan, Research Geomorphologist, Research Branch, Ministry of Forests, 31 Bastion Square, Victoria, B.C. V8W 3E7
Phone: (604) 387-5887 Facsimile: (604) 387-0046
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- suspended sediment concentrations
 - stream flow
 - bed load
 - various water quality parameters
- 3b. Data acquisition methods:** Field survey. Scientific field work carried out by Ministry staff.
- 3c. Geographic coverage:** British Columbia (various watersheds, see 11).
- 3d. Geographic units of measure:** Reach (section of river).
- 3e. Period of record:** 1970 to present.
- 3f. Update frequency:** Ongoing.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** VAX, PC.
- 5. Restrictions and conditions:** None.

6. **Price information:** No charge.
7. **Corresponding printed sources:** Research in Land Management reports.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Pacific; Forestry; Watersheds
11. **Additional information:** The following seven watersheds are being researched: Tsitika River; Carnation Creek; Chiliwack River; Upper Penticton Creek; West Arm (Red Fish Creek and Kokanee Creek); Nikitwa; Stuart-Taklar (Gluskie, O'Neil and Forfar Creeks).

Undeveloped Watersheds of BC

UWB-0485-E

1. **Summary description:** To inventory undeveloped watersheds on their ecological distribution.
- 2a. **Responsible organization:** Ministry of Forests
- 2b. **Database contact:** Mr. Terje Vold, Senior Wilderness Forester, Recreation Branch, Ministry of Forests, 2nd Floor, 610 Johnson Street, Victoria, B.C. V8W 3E7
Phone: (604) 387-8482 *Facsimile:* (604) 356-5909
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - watershed (location, size, ecoregion)
 - biogeoclimatic zone
 - protected area status
 - development status
 - watershed type (primary, secondary or tertiary)
- 3b. **Data acquisition methods:** Survey. Interviews with Regional Forest Service.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Watershed (smallest is 5 000 hectares).
- 3e. **Period of record:** 1990 to present.
- 3f. **Update frequency:** Irregularly.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, Intergraph IGDS.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Undeveloped Watersheds in British Columbia report.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Pacific; Ecology; Watersheds;
11. **Additional information:** None.

Upper Penticton Creek Experimental Watershed

UPC-0211-E

1. **Summary description:** To investigate forest harvesting impacts on water quantity and quality in the dry, southern interior. Initially the focus of the project was simply to identify changes in streamflow volumes, particularly low flow, following timber removal. More recently the project has expanded to include impacts not only on the hydrograph but also on chemical, physical and microbiological water quality following various rates of cut in two different forest types. The experiment has shifted from an input/output study to one which attempts to increase our understanding of the watershed processes. The climatological program addresses the various components of the water balance.
- 2a. **Responsible organization:** Ministry of Forests

- 2b. **Database contact:** Ms. Rita Eremko, Research Hydrologist, Research Branch - Kamloops, Ministry of Forests, 515 Columbia Street, Kamloops, B.C. V2C 2T7

Phone: (604) 828-4169 *Facsimile:* (604) 828-4154

- 2c. **Access mechanisms:** Limited, through agency contact.

- 3a. **Parameters measured:**

- precipitation (rate)
- temperature (soil, air)
- wind speed
- relative humidity
- solar radiation
- snow depth

- 3b. **Data acquisition methods:** Campbell Scientific data loggers record daily average, and daily maximum and minimum values for each of the parameters. Snow gauges were installed at the 240 and Dennis Creek sites in the fall of 1992. Snow water equivalent has been measured at the 240 and Dennis Creek sites since 1989. Air temperature and humidity sensor-TH62A Armoured. Campbell Scientific CR10 data loggers with tipping bucket rain gauge or Four Seasons FS-100 Standpipe gauge. Windspeed sensor-MET One, Model 14A. Pyranometer - LI-COR LI-200. Snow courses: Ministry of Environment standard 100 meter line consisting of 10 stations at 10 meter spacing. Measurements monthly from January to April and every 2 weeks from April to May. Weekly readings during melt.

- 3c. **Geographic coverage:** Climate stations are located at 240 Creek, Dennis Creek and below the Greyback Lake dam at elevations of roughly 1600 to 1700 m.

- 3d. **Geographic units of measure:** Station location.

- 3e. **Period of record:** 1984 to present.

- 3f. **Update frequency:** Continually.

- 4a. **Database storage format:** Diskette.

- 4b. **Database computer environment:** PC, EXCEL, LOTUS 123.

5. **Restrictions and conditions:** Some restrictions may apply.

6. **Price information:** Unknown.

7. **Corresponding printed sources:** None.

8. **Languages:** English.

9. **User aids available:** None.

10. **Keywords:** Forestry; Water quality; Watersheds

11. **Additional information:**

1. Historic data is in process of review. Station upgrading in progress.
2. Pre-treatment summary will be available mid 1994.
3. Streamflow records are also available through Water Survey of Canada.
4. The experiment includes three tributaries to Penticton Creek and involves the Ministry of Forests, Weyerhaeuser Canada Limited, Water Survey of Canada, BC Environment, the University of British Columbia and consultants.

West Arm Demonstration Forest

WAD-0486-E

1. **Summary description:** To monitor the general climatic and snow conditions prevailing in WADF.
- 2a. **Responsible organization:** Ministry of Forests
- 2b. **Database contact:** Mr. Dave Gluns, Hydrogeologist, Forest Sciences, Research Branch, Ministry of Forests, 518 Lake Street, Nelson, B.C. V2L 4C6
Phone: (604) 387-8482 *Facsimile:* (604) 356-5909
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - temperature (air, soil, snow)
 - humidity
 - wind (speed, direction)
 - precipitation (rain, snow)

- snow (accumulation, depth)
- solar radiation

- 3b. **Data acquisition methods:** Survey. Monitoring by Campbell Scientific Data Logger.
- 3c. **Geographic coverage:** Red Fish Creek, Kokanee Creek, Kokanee Park.
- 3d. **Geographic units of measure:** Drainage basin.
- 3e. **Period of record:** 1992 to present.
- 3f. **Update frequency:** As funding becomes available.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, EXCEL 4.0.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Pacific; Forestry; Climate;
11. **Additional information:** None.



Ministry of Health

Mortality Database in British Columbia

MDB-0171-E

1. **Summary description:** Individual death information registered to the Division of Vital Statistics, Ministry of Health.
- 2a. **Responsible organization:** Ministry of Health
- 2b. **Database contact:** Mr. Soo-Hong Uh, Manager, Research Branch, Division of Vital Statistics, Ministry of Health, 818 Fort Street, Victoria, B.C. V8W 1H8
Phone: (604) 387-4831 *Facsimile:* (604) 953-3946
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - name (sex, marital status, occupation, address)
 - date of death (underlying cause of death, contributing causes of death, age at death, place of death)
 - place of injury
- 3b. **Data acquisition methods:** Individual death registration and medical certificates of death.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Community, local health area, municipality, health unit, postal code.
- 3e. **Period of record:** 1872 to present.
- 3f. **Update frequency:** Daily, monthly, annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** IBM mainframe. PC.
5. **Restrictions and conditions:** Personal identifying information is restricted.
6. **Price information:** Charges are applied.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** Record layouts and coding rules.
10. **Keywords:** Human Health; Pacific; Population
11. **Additional information:** None.

Water Sampling Analysis Computer System

WSA-0422-E

1. **Summary description:** All bacteriological and chemical information for community drinking water supplies, beaches, public swimming pools and other miscellaneous sources.
- 2a. **Responsible organization:** Ministry of Health
- 2b. **Database contact:** Mr. Barry Boettger, Water Quality Consultant, Public Health Protection, Environmental Health Protection Service, Ministry of Health, 1515 Blanshard Street, Victoria, B.C. V8W 3C8
Phone: (604) 952-1572 *Facsimile:* (604) 952-1486
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - water system (source, location, owner, operator)
 - sample (date, chemical characteristics, bacteriological characteristics)
 - population served (for drinking water)
- 3b. **Data acquisition methods:** Water samples submitted by departments. Samples analysed by private laboratories.
- 3c. **Geographic coverage:** British Columbia.
- 3d. **Geographic units of measure:** Samples named by location description, postal address.
- 3e. **Period of record:** 1990 to present.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE, CLIPPER.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Health units prepare annual reports.
8. **Languages:** English.
9. **User aids available:** Program manual.
10. **Keywords:** Human Health; Pacific; Water
11. **Additional information:**
 1. This database is under development. It complements data collected by the Department of Environment, Land and Parks.
 2. Historical chemical data will be input as current operations permit. Bacteriological data will be stored for three years.
 3. It is planned that WSACS will be interactive with the System of Environmental Assessment and Management (SEAM) database in the near future.



Ministry of Transportation and Highways

Ministry of Highways

Remote Weather Stations

RAW-0213-E

1. **Summary description:** Meteorological information is required to assist in predicting and preventing snow avalanches which could block highways and present a danger to road travellers. The Snow Avalanche Program operates (1) a network of automatic weather stations (RAWS) and (2) a network of manual weather stations, both of which gather information that is used internally for avalanche forecasting and road maintenance purposes. Data from these networks are transferred to Atmos-

pheric Environment Service (AES) for their use in preparing mountain and public forecasts.

2a. Responsible organization: Ministry of Transportation and Highways

2b. Database contact: Mr. Mike Boissoneault, Senior Avalanche Officer, Snow Avalanche Programs, Ministry of Transportation and Highways, 940 Blanshard Street, Victoria, B.C. V8W 3E6
Phone: (604) 387-7514 *Facsimile:* (604) 356-8143

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- precipitation
- temperature
- wind
- humidity

3b. Data acquisition methods: Weather monitoring. Campbell Scientific 207 temperature/humidity probes are used throughout the network. Standpipe-type precipitation gauges are built in-house utilizing a Sensotec pressure transducer to measure precipitation accumulations.

3c. Geographic coverage: British Columbia.

3d. Geographic units of measure: The Ministry of Transportation and Highways operates 39 (in 1992) Remote Automatic Weather Stations (RAWS).

3e. Period of record: Not applicable.

3f. Update frequency: Most stations operated from November 1 to April 30.

4a. Database storage format: Hardcopy, hard disk.

4b. Database computer environment: Mainframe.

5. Restrictions and conditions: None.

6. Price information: No charge.

7. Corresponding printed sources: None.

8. Languages: English.

9. User aids available: None.

10. Keywords: Climatology; Pacific; Weather

11. Additional information:

1. All data collected in accordance with NRC Guidelines for Weather, Snowpack and Avalanche Observations. Data reviewed visually for values out-of-range of the sensor capability.
2. Snow Avalanche Programs in the process of implementing a series of Local Area Networks connected through a Wide Area Network for transfer of weather and other information.
3. There are three types of remote weather stations in the network: High elevation Wind Sites - mountain top air temperature, relative humidity, wind speed and direction are recorded. These sites are too windy for precipitation measurements; Precipitation Sites - air temperature, relative humidity, precipitation and snowpack temperature are measured. These sites are usually in a sheltered location, often below the tree line; Combined Sites - all sensors are located within a short distance of a central datalogger at these sites. Short landlines are required to allow exposure of the anemometer to winds while the precipitation gauge is located in a sheltered, forested site.
4. The RAWS transfer data to a central computer in Victoria via telephone modem hourly.

Traffic Survey Inventories

TSI-0214-E

1. Summary description: Traffic counts on all major highways in British Columbia.

2a. Responsible organization: Ministry of Transportation and Highways

2b. Database contact: Mr. Michael Goodhelpsen, Transportation Information Officer, Planning Services Branch, Ministry of Transportation and Highways, 940 Blanshard Street, Victoria, B.C. V8W 3E6

Phone: (604) 387-5252 *Facsimile:* (604) 356-5156

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- counts (short, permanent, intersection)
- studies (vehicle classification/occurrences, destination)
- truck surveys

3b. Data acquisition methods: Automatic counts and manual (enumerator). Automatic: a machine is set out temporarily or permanently,

3c. Geographic coverage: British Columbia.

3d. Geographic units of measure: Zones and points.

3e. Period of record: 1982 to present.

3f. Update frequency: Last updated in 1988.

4a. Database storage format: Hardcopy, diskette.

4b. Database computer environment: Mainframe, Macintosh.

5. Restrictions and conditions: None.

6. Price information: No charge.

7. Corresponding printed sources: None.

8. Languages: English.

9. User aids available: None.

10. Keywords: Pacific; Transportation; Vehicles

11. Additional information:

1. The TSI is not currently up-to-date. It is in the process of being replaced by a newer system.
2. Prior to ten years, data has been archived.

Wildlife Accident Record System

WAR-0188-E

1. Summary description: To provide a quantitative analysis of roadkill; problematic locations; susceptible species. To aid in development of preventative strategies.

2a. Responsible organization: Ministry of Transportation and Highways

2b. Database contact: Mr. Mike Kent, Director, Highway Environment Branch, Ministry of Transportation and Highways, 940 Blanshard Street, Victoria, B.C. V8V 3E6

Phone: (604) 387-7768 *Facsimile:* (604) 387-3736

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- number of data kills (species type)
- location (by district, LKI)

3b. Data acquisition methods: Manual observations and recording. Highways district personnel.

3c. Geographic coverage: British Columbia.

3d. Geographic units of measure: Ministry of Transportation and Highways Districts; Landmark Kilometre Inventory (LKI).

3e. Period of record: 1978 to 1992.

3f. Update frequency: Monthly.

4a. Database storage format: Hardcopy.

4b. Database computer environment: PC.

5. Restrictions and conditions: None (see 11).

6. Price information: No charge.

7. Corresponding printed sources: None.

8. Languages: English.

9. User aids available: None.

10. Keywords: Pacific; Vehicles; Wildlife

11. Additional information: Available at data centre only.

YUKON



Department of Community and Transportation Services

Vehicle Registration System

VRS-0240-E

1. **Summary description:** An inventory of registered vehicles for the purpose of operating in Yukon Territory.
- 2a. **Responsible organization:** Department of Community and Transportation Services
- 2b. **Database contact:** Mr. Fred Jennex, Deputy Registrar, Motor Vehicle Section, Department of Community and Transportation, Services, 201 Range Road, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-5313 *Facsimile:* (403) 668-7864
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - name (address)
 - vehicle characteristics
 - history of registration
- 3b. **Data acquisition methods:** Paper registration slips that are then transferred to the system.
- 3c. **Geographic coverage:** Yukon.
- 3d. **Geographic units of measure:** Postal code.
- 3e. **Period of record:** 1988 to present.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Magnetic tape.
- 4b. **Database computer environment:** Mainframe, SQL.
5. **Restrictions and conditions:** Freedom of Information would apply. See data centre contact.
6. **Price information:** No charge for governmental use.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** North; Transportation; Vehicles
11. **Additional information:** In order to obtain data, a written request must be presented to the Deputy Registrar. Some information may be confidential.



Department of Education

Yukon Archives

YAR-0200-E

1. **Summary description:** The Yukon Archives is a program of the Department of Education of the Government of Yukon. The Archives is responsible for acquiring, preserving and making available documentary sources related to Yukon history, cultures and development. The resources of the Yukon Archives span many years, subjects and media including films, sound

recordings, maps and plans, newspapers, government and corporate records, photographs and private manuscripts.

- 2a. **Responsible organization:** Department of Education
- 2b. **Database contact:** Ms. Clara Rutherford, Accessions Archivist, Yukon Archives, Department of Education, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-5333 *Facsimile:* (403) 667-4253
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - see 11
- 3b. **Data acquisition methods:** The Archives resources are constantly expanding by means of donation, purchase, copy loan, and the government records management program.
- 3c. **Geographic coverage:** Yukon.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** Government records date back to 1896.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Films, sound recordings, library, maps, plans, newspapers, photographs, government and corporate records, private manuscripts.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Artifacts; History; North
11. **Additional information:**
 1. Yukoners are encouraged to deposit business and society records, family papers, diaries, photographs, church and school records, political papers and other memorabilia.
 2. The Archives maintains a library of over 14,500 volumes for reference in their reading room. They also maintain a collection of over 8,500 maps, plans and atlases relating to Yukon and northwest Canada. The newspaper collection consists of over 50 individual mastheads and the photograph collection of more than 57,000 prints. The private manuscript collection includes diaries, correspondence, scrapbooks, account books and other papers of individuals who have been associated with the Yukon.
 3. If unable to visit the Archives in person, reference assistance is available through correspondence.
 4. Access to both current and non-current Yukon Government records is prescribed by the Archives Act and Access to Information Act.



Department of Health and Social Services

Births Database

BIR-0203-E

1. **Summary description:** The Vital Statistics Birth Database is an inventory of all births occurring in Yukon. The births are entered into the database by the date of registration.
- 2a. **Responsible organization:** Department of Health and Social Services

2b. Database contact: Mr. Jim Fox, Research Officer, Bureau of Statistics, Executive Council Office, Government of Yukon, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-5950 *Facsimile:* (403) 668-7887

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- name (child, mother, father)
- place of birth
- duration of pregnancy
- weight of child
- parental marital status

3b. Data acquisition methods: Monitoring. Birth registration forms.

3c. Geographic coverage: Yukon.

3d. Geographic units of measure: Not applicable.

3e. Period of record: 1986 to present.

3f. Update frequency: Continually.

4a. Database storage format: Hardcopy.

4b. Database computer environment: Mainframe, SAS.

5. Restrictions and conditions: None.

6. Price information: No charge.

7. Corresponding printed sources: Yukon Quarterly Statistical Review, before 1993 and Yukon Annual Statistical Review, after 1993 (both available from the Information Services Department).

8. Languages: English.

9. User aids available: None.

10. Keywords: Health; Human Health; North

11. Additional information:

1. The data is entered at the Department of Health and Social Services, Vital Statistics Branch and is edited and analyzed by the Yukon Bureau of Statistics on an annual, quarterly, and ad hoc basis.
2. Statistical Reviews can be obtained by contacting: Joe MacGillivray, Information Office, Information Services Department, Phone: (403) 667-5640.

Deaths Database

DEA-0241-E

1. Summary description: The Vital Statistics Deaths Database is an inventory of all deaths occurring in the Yukon. The deaths are entered into the database by the date of registration.

2a. Responsible organization: Department of Health and Social Services

2b. Database contact: Mr. Jim Fox, Research Officer, Bureau of Statistics, Executive Council Office, Government of Yukon, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6

Phone: (403) 667-5950 *Facsimile:* (403) 668-7887

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- deceased (name, place of death, usual residence, marital status, occupation)
- age (birthdate, birthplace, father, mother)
- medical certificate of death (date, cause, autopsy)

3b. Data acquisition methods: Monitoring. Death registration forms.

3c. Geographic coverage: Yukon.

3d. Geographic units of measure: Not applicable.

3e. Period of record: 1986 to present.

3f. Update frequency: Continually.

4a. Database storage format: Hardcopy.

4b. Database computer environment: Mainframe, SAS.

5. Restrictions and conditions: None.

6. Price information: No charge.

7. Corresponding printed sources: *Yukon Quarterly Statistical Review*, before 1993 and *Yukon Annual Statistical Review*, after 1993 (both available from the Information Services Department).

8. Languages: English.

9. User aids available: None.

10. Keywords: Health; Human Health; North

11. Additional information:

1. The data is entered at the Department of Health and Social Services, Vital Statistics Branch and is edited and analyzed by the Yukon Bureau of Statistics on an annual, quarterly, and ad hoc basis.
2. Statistical Reviews can be obtained by contacting: Joe MacGillivray, Information Officer, Information Services Department, Phone: (403) 667-5640.
3. Statistics Canada ICD-9 codes all deaths occurring in the Yukon and provides this data on an annual basis.



Department of Renewable Resources

Agricultural/Grazing Application Soil Reviews

AGA-0365-E

1. Summary description: An inventory of site specific agricultural capability of soils in Yukon used for the land use application review process.

2a. Responsible organization: Department of Renewable Resources

2b. Database contact: Mr. Chuck Hubert, Environmental Assessment Technician, Environmental Protection and Assessment Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6

Phone: (403) 667-8129 *Facsimile:* (403) 667-3641

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- agricultural capability
- applicant (date, application number)
- numerous site characteristics

3b. Data acquisition methods: Reports. Data input by departmental staff.

3c. Geographic coverage: Yukon.

3d. Geographic units of measure: Location, area.

3e. Period of record: 1987 to present.

3f. Update frequency: Will not be updated.

4a. Database storage format: Hardcopy.

4b. Database computer environment: Not applicable.

5. Restrictions and conditions: Not for public distribution.

6. Price information: No charge.

7. Corresponding printed sources: None.

8. Languages: English.

9. User aids available: None.

10. Keywords: Agriculture; Land use; North

11. Additional information: None.

Agriculture Application Database

AAD-0366-E

1. **Summary description:** An inventory of agriculture and grazing land applications reviewed by Renewable Resources for Agriculture Land Application Review Committee (ALARC).
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Mr. Chuck Hubert, Environmental Assessment Technician, Environmental Protection and Assessment Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-8129 *Facsimile:* (403) 667-3641
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - agriculture and grazing applications
 - applicant (application number)
 - location (quadrant number, parcel size)
 - status
 - review attributes
- 3b. **Data acquisition methods:** Monitoring. Agriculture applicants.
- 3c. **Geographic coverage:** Yukon.
- 3d. **Geographic units of measure:** UTM coordinates, NTS map sheets, quadrant.
- 3e. **Period of record:** 1987 to present.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Mylar map sheets, diskette.
- 4b. **Database computer environment:** PC.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Agriculture; Land use; North
11. **Additional information:** None.

Carmacks Forest Cover Inventory

CFI-0354-E

1. **Summary description:** Vegetation and forest cover data for the Carmacks forest. It is currently used to determine wildlife/habitat relationships, and for Park and Outdoor Recreation Systems Planning and Land Application Review.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Mr. David Murray, Land Resources Technician, Agriculture Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-3699 *Facsimile:* (403) 668-3955
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - vegetation
 - forest cover (polygons)
- 3b. **Data acquisition methods:** Field studies. Data input by departmental staff.
- 3c. **Geographic coverage:** Carmacks forest, Yukon.
- 3d. **Geographic units of measure:** UTM coordinates, NTS map sheets.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** DIAND forestry updating some data.
- 4a. **Database storage format:** Mylar mapsheets.

- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Ecology; North; Trees
11. **Additional information:** None.

Commercial Wilderness Operator Maps

CWO-0367-E

1. **Summary description:** An inventory of point locations of outfitter camp applications, wilderness recreation leases and lease applications.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Mr. Chuck Hubert, Environmental Assessment Technician, Environmental Protection and Assessment Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-8129 *Facsimile:* (403) 667-3641
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - point locations of applications
- 3b. **Data acquisition methods:** Outfitter camp applications and wilderness recreation lease applications.
- 3c. **Geographic coverage:** Yukon.
- 3d. **Geographic units of measure:** UTM coordinates, NTS map sheets.
- 3e. **Period of record:**
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Harvesting; North; Recreation
11. **Additional information:** None.

Dempster Highway Management Strategy

DHM-0360-E

1. **Summary description:** A comprehensive integrated management strategy - a series of background inventory maps (wildlife, heritage).
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Ms. Yvonne Harris, Manager, Planning and Resource Policy, Policy and Planning Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-5967 *Facsimile:* (403) 667-2438
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - wildlife key habitat
 - heritage resources (category, name, source, land use management concerns)
 - existing land use
 - vegetation

- mineral resources
- key fisheries areas
- 3b. Data acquisition methods:** Various field studies.
- 3c. Geographic coverage:** Dempster Highway, Yukon.
- 3d. Geographic units of measure:** UTM coordinates, NTS map sheets, latitude and longitude.
- 3e. Period of record:** 1988 to 1990.
- 3f. Update frequency:** Not applicable.
- 4a. Database storage format:** Paper and mylar mapsheets.
- 4b. Database computer environment:** Not applicable.
- 5. Restrictions and conditions:** Permission of First Nations required for site access.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Ecology; North; Roads
- 11. Additional information:** None.

Dempster Highway Surficial Inventory

DHS-0357-E

- 1. Summary description:** An inventory of the surficial geology of the Dempster Highway. The database is used for land use planning and the land application review process.
- 2a. Responsible organization:** Department of Renewable Resources
- 2b. Database contact:** Mr. David Murray, Land Resources Technician, Agriculture Branch, Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-3699 *Facsimile:* (403) 668-3955
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - surficial geology
 - geomorphology
 - suitability for construction (permanent, temporary, pipeline, sewage lagoon)
 - suitability for construction material
 - unique quaternary features
- 3b. Data acquisition methods:** Field studies.
- 3c. Geographic coverage:** Yukon.
- 3d. Geographic units of measure:** UTM coordinates, NTS map sheets.
- 3e. Period of record:** Not applicable.
- 3f. Update frequency:** Will not be updated.
- 4a. Database storage format:** Mylar mapsheets.
- 4b. Database computer environment:** Not applicable.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Geomorphology; North; Soils
- 11. Additional information:** None.

Ecoregions

ECO-0332-E

- 1. Summary description:** A database containing the boundaries of 22 ecoregions (actual and revised).
- 2a. Responsible organization:** Department of Renewable Resources

- 2b. Database contact:** Ms. Beth Hawkings (Actual Boundaries), Manager, Geographic Information Section, Policy, Planning and Assessment Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-8137 *Facsimile:* (403) 667-2438
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - ecoregion (number, boundaries)
 - GMZ
 - GMS
- 3b. Data acquisition methods:** Reports, maps. Data input by departmental staff.
- 3c. Geographic coverage:** Yukon.
- 3d. Geographic units of measure:** Lambert conformal projection, UTM coordinates.
- 3e. Period of record:** Not applicable.
- 3f. Update frequency:** As required.
- 4a. Database storage format:** Hardcopy (2 mapsheets).
- 4b. Database computer environment:** PC, SAS.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Ecology; Ecozones; Geographic Information System
- 11. Additional information:** None.

Federal and Territorial Land Disposition Applications

FTL-0246-E

- 1. Summary description:** Files containing federal land disposition applications; territorial land disposition applications; and agriculture/grazing applications.
- 2a. Responsible organization:** Department of Renewable Resources
- 2b. Database contact:** Mr. Chuck Hubert, Environmental Assessment Technician, Environmental Protection and Assessment Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-8129 *Facsimile:* (403) 667-3641
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - application (number, date, type, name of applicant)
 - location
 - NTS map sheet number
 - tenure type desired
 - area in hectares
 - committee (decision dates, decision comments)
- 3b. Data acquisition methods:** Monitoring. Application form and review.
- 3c. Geographic coverage:** Yukon.
- 3d. Geographic units of measure:** Lot number if within municipality, kilometer post on highway.
- 3e. Period of record:** 1988 to present.
- 3f. Update frequency:** Monthly.
- 4a. Database storage format:** Hardcopy.
- 4b. Database computer environment:** IBM mainframe, SAS.
- 5. Restrictions and conditions:** None.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** *Land Use Application Review Manual*, 1989. *Procedures Manual*, 1989.

8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Geography; Land use; North
11. **Additional information:** None.

First Nation Traditional Territories

FNT-0535-E

1. **Summary description:** A database containing Game Management Zone (GMZ) and Subzone (GMS) found within the First Nation Traditional Territories of the Yukon.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Ms. Tena Fox, Data Administrator, Information Services and Economic Programs, Administration Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-8558 *Facsimile:* (403) 667-4727
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - First Nation Members
 - game management zones (GMZ)
 - game management subzones (GMS)
- 3b. **Data acquisition methods:** Monitoring. Data input by departmental staff.
- 3c. **Geographic coverage:** Yukon.
- 3d. **Geographic units of measure:** Game management zone (GMZ) and game management subzone (GMS).
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Hardcopy, mapsheets.
- 4b. **Database computer environment:** PC, SAS.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** North; Landscape; Wildlife
11. **Additional information:** None.

Fish and Wildlife Occurrence Data

OCC-0371-E

1. **Summary description:** An inventory of calls from public requiring Conservation Officer action (nuisance bear reports).
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Mr. Kris Gustafson, Special Services Officer, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-8054 *Facsimile:* (403) 667-2691
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - date
 - details of occurrence
 - location
 - conservation officer district
- 3b. **Data acquisition methods:** Public providing information through voluntary telephone calls.
- 3c. **Geographic coverage:** Yukon.
- 3d. **Geographic units of measure:** Location.
- 3e. **Period of record:** Not applicable.

- 3f. **Update frequency:** Ongoing (paper), annually (SAS document).
- 4a. **Database storage format:** Digital, hard copy.
- 4b. **Database computer environment:** PC, SAS.
5. **Restrictions and conditions:** Database is confidential.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Conservation; North; Wildlife
11. **Additional information:** None.

Fur Harvest Management Database

FH-0346-E

1. **Summary description:** Fur harvest data.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Mr. Harvey Jessup, Fur Harvest Biologist, Regional Fish and Wildlife Programs, Fish and Wildlife Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-5767 *Facsimile:* (403) 668-4363
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - trapper (name, address, license number)
 - trapping concession number
 - fur (harvest data, sale records, export and seal documents)
- 3b. **Data acquisition methods:** Reports. Data input by departmental staff.
- 3c. **Geographic coverage:** Yukon.
- 3d. **Geographic units of measure:** Concession.
- 3e. **Period of record:** 1980 to present.
- 3f. **Update frequency:** Continually.
- 4a. **Database storage format:** Digital.
- 4b. **Database computer environment:** PC, SAS.
5. **Restrictions and conditions:** Data are confidential.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Fur Harvest Production and Value report.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Harvesting; North; Wildlife
11. **Additional information:** None.

Game Management Areas

GMA-0331-E

1. **Summary description:** An inventory of approximately 42 map sheets containing regulatory boundaries of game management zones and subzones.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Ms. Beth Hawkings, or Ms. Lauren Crooks (for digital products), Geographic Information Services, Policy, Planning and Assessment Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-8137 *Facsimile:* (403) 668-3955
Mr. Steve Smyth (for mylar products), Manager, Information Services and Economic Programs, Administration Branch
Phone: (403) 667-5797 *Facsimile:* (403) 667-2438

- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- GMZ/GMS number
 - area
- 3b. **Data acquisition methods:** Mapping. Data input by departmental staff.
- 3c. **Geographic coverage:** Yukon.
- 3d. **Geographic units of measure:** UTM coordinates.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Hardcopy, mylar mapsheets, paper maps, diskette.
- 4b. **Database computer environment:** PC, SAS, PAMAP GIS, FOXPRO.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Geographic Information System; North; Wildlife
11. **Additional information:** None.

Greater Kluane Land Use Plan

GKL-0445-E

1. **Summary description:** Comprehensive regional land use plan of the Kluane region.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Ms. Yvonne Harris, Manager, Planning and Resource Policy, Policy and Planning Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-5967 *Facsimile:* (403) 667-3641
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- wildlife
 - forestry
 - fisheries
 - mineral capacity
 - hazard lands
 - heritage sites
 - community infrastructure (population)
- 3b. **Data acquisition methods:** Field surveys, reports. Data input by departmental staff.
- 3c. **Geographic coverage:** Kluane region, Yukon.
- 3d. **Geographic units of measure:** NTS map sheets.
- 3e. **Period of record:** 1989 to 1991.
- 3f. **Update frequency:** Proposed for 1996.
- 4a. **Database storage format:** Paper and mylar mapsheets.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** Limited (see 11).
6. **Price information:** No charge for one copy.
7. **Corresponding printed sources:** Background research papers.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Ecology; Habitats; North
11. **Additional information:**
1. This plan has not yet been approved.
 2. Details on heritage sites are available only upon request to the Department of Tourism, Heritage Branch.

Hunting Licenses and Seal Receipts

HLS-0342-E

1. **Summary description:** An inventory of hunting licenses and seal receipts issued.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Ms. Tena Fox, Data Administrator, Information Services and Economic Programs, Administration Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-8558 *Facsimile:* (403) 667-4727
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- hunter (name, address, sex, birth date)
 - geographical area of hunter residence
- 3b. **Data acquisition methods:** Monitoring licenses and receipts issued.
- 3c. **Geographic coverage:** Yukon.
- 3d. **Geographic units of measure:** Geographical area of hunter residence.
- 3e. **Period of record:** 1981 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, SAS.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** North; Regulation; Wildlife
11. **Additional information:** None.

Indian Harvest Survey

IH-0347-E

1. **Summary description:** Wildlife harvest information for status Indian households.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Ms. Tena Fox, Data Administrator, Administration Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-8558 *Facsimile:* (403) 667-4727
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- harvest
 - household data
 - band area
 - community
- 3b. **Data acquisition methods:** Reports. Information provided by status Indian households.
- 3c. **Geographic coverage:** Yukon.
- 3d. **Geographic units of measure:** Band area, community.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC, SAS.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.

8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Harvesting; North; Wildlife
11. **Additional information:** None.

Klondike River Valley Soils Map

KLO-0169-E

1. **Summary description:** A database consisting of digitized polygons defining different soil types. To every polygon is attached a soils descriptor and a unique number for 5 maps. The data was collected along the Klondike Highway between Dawson City and Flat Creek.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Mr. David Murray, Agriculture Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-3699 *Facsimile:* (403) 668-3955
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - location (UTM coordinates)
 - soil properties
- 3b. **Data acquisition methods:** Field measurements, soil survey.
- 3c. **Geographic coverage:** Klondike River Valley, Yukon.
- 3d. **Geographic units of measure:** Latitude and longitude, UTM coordinates, NTS map sheets.
- 3e. **Period of record:** The data was collected in 1987.
- 3f. **Update frequency:** Not updated.
- 4a. **Database storage format:** Hardcopy, tape, diskette.
- 4b. **Database computer environment:** PC, DBASE III/IV, PAMAP.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Geomorphology; North; Soils; Geographic Information System
11. **Additional information:** None.

Kusawa Lake Ecological Land Classification

KLE-0350-E

1. **Summary description:** Comprehensive biophysical inventory of the Kusawa Lake area.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Mr. John Mickle, Park Management Specialist, Parks and Outdoor Recreation Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-3538 *Facsimile:* (403) 668-7823
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - vegetation
 - terrain classification
 - ecoregions
 - limitations to development
- 3b. **Data acquisition methods:** Reports, field surveys. Data input by departmental staff.
- 3c. **Geographic coverage:** Kusawa Lake area, Yukon.

- 3d. **Geographic units of measure:** Ecoregions.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** Will not be updated.
- 4a. **Database storage format:** Mylar mapsheets.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Ecology; Landscape; North
11. **Additional information:** None.

Land Use Permit Database

PER-0364-E

1. **Summary description:** An inventory of land use permit applications reviewed by Renewable Resources for Land Use Advisory Committee (LUAC) and Resource Transportation Access Program (RTAP).
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Mr. Chuck Hubert, Environmental Assessment Technician, Environmental Protection and Assessment Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-8129 *Facsimile:* (403) 668-3641
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - location (UTM coordinates, GMS, GMZ, NTS, quadrant)
 - conservation officer district
 - outfitter area
 - registered trapping concession number
 - review attributes
 - applicant
 - date
- 3b. **Data acquisition methods:** Land use permit applications.
- 3c. **Geographic coverage:** Yukon.
- 3d. **Geographic units of measure:** UTM coordinates, quadrant.
- 3e. **Period of record:** 1987 to present.
- 3f. **Update frequency:** Weekly.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, SAS.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Environmental Science; Land use; North
11. **Additional information:** None.

Non-resident Hunter Harvest Database

NHH-0343-E

1. **Summary description:** Outfitter declaration of wildlife harvest by non-resident hunters.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Ms. Tena Fox, Data Administrator, Information Services and Economic Programs, Administration

Branch, Department of Renewable Resources, P.O. Box 2703,
Whitehorse, Y.T. Y1A 2C6

Phone: (403) 667-8558 Facsimile: (403) 667-4727

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- hunter name
- kill by species
- days effort by species
- outfitting area

3b. Data acquisition methods: Reports. Non-resident hunters declaration of wildlife harvest.

3c. Geographic coverage: Yukon.

3d. Geographic units of measure: Outfitting area.

3e. Period of record: 1979 to present.

3f. Update frequency: Ongoing.

4a. Database storage format: Hardcopy, diskette.

4b. Database computer environment: PC, SAS.

5. Restrictions and conditions: Not for public release.

6. Price information: No charge.

7. Corresponding printed sources: Annual summaries.

8. Languages: English.

9. User aids available: None.

10. Keywords: Harvesting; North; Wildlife

11. Additional information: None.

Outfitter Areas

OA-0377-E

1. Summary description: An inventory of the regulatory boundaries of big game guiding/outfitting areas in the Yukon.

2a. Responsible organization: Department of Renewable Resources

2b. Database contact: Ms. Tena Fox, Data Administrator, Information Services and Economic Programs, Policy, Planning and Assessment Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6

Phone: (403) 667-8558 Facsimile: (403) 667-4727

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- outfitting area number
- location (GMZ, GMS, area)
- conservation officer district

3b. Data acquisition methods: Reports. Data input by departmental staff.

3c. Geographic coverage: Yukon.

3d. Geographic units of measure: UTM coordinates, NTS map sheets.

3e. Period of record: Not applicable.

3f. Update frequency: As required.

4a. Database storage format: Mylar mapsheets, diskette.

4b. Database computer environment: PC, SAS.

5. Restrictions and conditions: None.

6. Price information: No charge.

7. Corresponding printed sources: None.

8. Languages: English.

9. User aids available: None.

10. Keywords: North; Regulation; Wildlife

11. Additional information: None.

Protected Areas Inventory

PAI-0362-E

1. Summary description: Attribute files for Yukon-wide inventory of potential and actual protected areas used for land use planning, habitat protection, park and outdoor recreation system planning, and for the land use application review process.

2a. Responsible organization: Department of Renewable Resources

2b. Database contact: Mr. John Meikle, Parks and Outdoor Recreation Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6

Phone: (403) 667-3538 Facsimile: (403) 668-7823

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- location (area number, latitude and longitude, ecoregion)
- system
- purpose
- proposal date
- review date
- potential and actual protected areas

3b. Data acquisition methods: Reports. Data input by departmental staff.

3c. Geographic coverage: Yukon.

3d. Geographic units of measure: UTM coordinates, NTS map sheets, latitude and longitude.

3e. Period of record: Not applicable.

3f. Update frequency: Every 6 months.

4a. Database storage format: Hardcopy, diskette.

4b. Database computer environment: PC.

5. Restrictions and conditions: Limited access available.

6. Price information: No charge.

7. Corresponding printed sources: None.

8. Languages: English.

9. User aids available: None.

10. Keywords: Land use; North; Protected areas

11. Additional information: None.

Recreation Features Inventory

RFI-0337-E

1. Summary description: A database of interpreted data about the recreation potential of lands in the Yukon.

2a. Responsible organization: Department of Renewable Resources

2b. Database contact: Mr. Afan Jones, Outdoor Recreational Planner, Planning Section, Parks and Outdoor Recreation Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6

Phone: (403) 667-3048 Facsimile: (403) 668-7823

2c. Access mechanisms: Through the responsible organization.

3a. Parameters measured:

- contiguous, non-overlapping polygons classified for different types of recreational potential (features, significance, annotation)
- points indicating natural features of interest

3b. Data acquisition methods: Reports. Data input by departmental staff.

3c. Geographic coverage: Yukon.

3d. Geographic units of measure: UTM coordinates, NTS map sheets.

3e. Period of record: 1990 to present.

3f. Update frequency: Irregularly, as required.

- 4a. **Database storage format:** Hardcopy, mylar and paper maps, diskette.
- 4b. **Database computer environment:** PC, DBASE IV.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Landscape; North; Recreation
11. **Additional information:** The department also holds an inventory on potential recreation sites in the Yukon as outlined in the Outdoor Recreation Systems Plan. See data centre contact for further information.

Resident Hunter Harvest Database

RHH-0344-E

1. **Summary description:** A record of wildlife harvest by resident hunters.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Ms. Tena Fox, Data Administrator, Information Services and, Economic Programs, Administration Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-8558 *Facsimile:* (403) 667-4727
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - species (sex of kill)
 - effort
 - kill (date, location description)
- 3b. **Data acquisition methods:** Questionnaire. Resident hunters.
- 3c. **Geographic coverage:** Yukon.
- 3d. **Geographic units of measure:** Location.
- 3e. **Period of record:** 1979 to present.
- 3f. **Update frequency:** Ongoing.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, SAS.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Harvest analysis reports.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Harvesting; North; Wildlife
11. **Additional information:** None.

Roads, Trails and Special Areas

RTS-0336-E

1. **Summary description:** An inventory of roads, trails and reserves.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Mr. Afan Jones, Outdoor Recreation Planner, Parks and Outdoor Recreation Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-3048 *Facsimile:* (403) 668-7823
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - roads
 - trails
 - block land transfer areas

- reserves
- DRR notations
- protected areas
- commercial wilderness operators

- 3b. **Data acquisition methods:** Reports, maps. Data input by departmental staff.
- 3c. **Geographic coverage:** Yukon.
- 3d. **Geographic units of measure:** UTM coordinates, NTS map-sheets.
- 3e. **Period of record:**
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Mylar, hardcopy.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** North; Roads; Transportation
11. **Additional information:** None.

Soil Fertility and Feed Quality Database

SFF-0534-E

1. **Summary description:** Records soil fertility and feed quality from Yukon farms since 1983. There is data from a variety of soil conditions and cultivation regimes.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Mr. David Murray, Land Resources Technician, Agriculture Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-3699 *Facsimile:* (403) 668-3955
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - soil fertility (major nutrients for all records, micronutrients for problem cases, organic matter, pH, electrical conductivity)
 - feed quality (moisture content, crude protein, acid detergent fibre, total digestible nutrient, calcium)
- 3b. **Data acquisition methods:** Field samples. Inspections and forms submitted by farmers.
- 3c. **Geographic coverage:** Yukon.
- 3d. **Geographic units of measure:** Uniform soil areas within fields and landforms.
- 3e. **Period of record:** 1983 to present.
- 3f. **Update frequency:** Seasonal.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE IV.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Ecology; North; Soils
11. **Additional information:** The feed quality database grew out of the Native Range Study undertaken by Agriculture Branch between 1988 and 1991.

Southern Lakes Ecological Land Survey

SLE-0352-E

1. **Summary description:** A comprehensive biophysical inventory of the Southern Lakes region. The database is used for Land Use Planning, Land Application Review and to study wildlife/habitat relationships.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Ms. Catherine Kennedy, Vegetation Specialist, Habitat Management, Fish and Wildlife Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-5407 *Facsimile:* (403) 668-4363
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - vegetation
 - surficial geology (soils, slope, elevation)
 - aquatics
 - classification (terrain, soils, vegetation, aquatics)
- 3b. **Data acquisition methods:** Field studies. Data input by departmental staff.
- 3c. **Geographic coverage:** Southern Lakes region, Yukon.
- 3d. **Geographic units of measure:** UTM coordinates, NTS map sheets.
- 3e. **Period of record:** 1980 to 1983.
- 3f. **Update frequency:** No current plans for updating.
- 4a. **Database storage format:** Mylar mapsheets.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Ecology; Landscape; North
11. **Additional information:** None.

Stewart River/Atlin Aquatics

SRI-0353-E

1. **Summary description:** An aquatics inventory of the Stewart River and Atlin area. Its current use is to aid fisheries management.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Mr. David Murray, Agriculture Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-3699 *Facsimile:* (403) 668-3955
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - aquatics biophysical information (points, lines, polygons)
- 3b. **Data acquisition methods:** Field studies. Data input by departmental staff.
- 3c. **Geographic coverage:** Stewart River and Atlin area, Yukon.
- 3d. **Geographic units of measure:** UTM coordinates, NTS map sheets.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** Will not be updated.
- 4a. **Database storage format:** Mylar mapsheets.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.

6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Ecology; Habitats; Rivers
11. **Additional information:** None.

Stocked Lakes

STO-0375-E

1. **Summary description:** Index maps of lakes which have been stocked with fish.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Mr. Nick DeGraff, Biologist, Fisheries Management, Fish and Wildlife Management, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-3715 *Facsimile:* (403) 668-4363
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - lake name
 - status (public stockings, private stockings, unsuitable or suitable, suitable but not stocked, winter kill)
- 3b. **Data acquisition methods:** Reports. Data input by departmental staff.
- 3c. **Geographic coverage:** Yukon.
- 3d. **Geographic units of measure:** UTM coordinates, NTS map sheets.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** As required.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Fish; Lakes; Wildlife
11. **Additional information:** Lakes are numbered to correspond to files - 5 groups are colour coded presently (five colours).

Trapline Concession Boundaries

TCB-0532-E

1. **Summary description:** Trapline boundaries.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Mr. Harvey Jessup, Fur Harvest Biologist, Regional Fish and Wildlife Programs, Fish and Wildlife Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-5767 *Facsimile:* (403) 668-4363
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - trapline (area, harvest, registration, concession number)
- 3b. **Data acquisition methods:** Reports. Data input by departmental staff.
- 3c. **Geographic coverage:** Yukon.
- 3d. **Geographic units of measure:** Concession.
- 3e. **Period of record:** 1950 to present. Digitized since 1989.
- 3f. **Update frequency:** Continually.

- 4a. **Database storage format:** Digital maps.
- 4b. **Database computer environment:** PC, SAS.
5. **Restrictions and conditions:** None.
6. **Price information:** There is a charge for copying.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Harvesting; North; Wildlife
11. **Additional information:** None.

Vegetation Inventory Field Database

VIF-0355-E

1. **Summary description:** An inventory of vegetation and site field data collected for ground-truthing and vegetation mapping.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Ms. Catherine Kennedy, Vegetation Specialist, Habitat Management, Fish and Wildlife Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-5407 *Facsimile:* (403) 668-4363
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - site (number, information)
 - location (latitude and longitude, ecoregion, NTS, quadrant)
 - percent cover by vegetation species
- 3b. **Data acquisition methods:** Field studies, aerial photography. Data is interpreted and input by departmental staff.
- 3c. **Geographic coverage:** Specific study areas in Yukon.
- 3d. **Geographic units of measure:** UTM coordinates, NTS map sheets, quadrant.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** Ongoing until project is complete.
- 4a. **Database storage format:** Hardcopy, air photographs, diskette.
- 4b. **Database computer environment:** PC, SAS.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Ecology; North; Plants
11. **Additional information:** None.

Vegetation Inventory Maps

VIM-0356-E

1. **Summary description:** Maps and descriptions of vegetation cover in specific study areas such as Coal River, Herschel Island, McArthur Mountain and Ethel Lake. The maps are used for land use planning and to study wildlife/habitat relationships.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Ms. Catherine Kennedy, Vegetation Specialist, Habitat Management and, Research, Fish and Wildlife Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-5407 *Facsimile:* (403) 668-4363
- 2c. **Access mechanisms:** Through the responsible organization.

- 3a. **Parameters measured:**
 - contiguous, non-overlapping polygons of vegetative cover
- 3b. **Data acquisition methods:** Field studies, aerial and satellite imagery. Departmental staff collect field data and interpret air photographs, along with both analogue and digital satellite data.
- 3c. **Geographic coverage:** Specific study areas in the Yukon.
- 3d. **Geographic units of measure:** UTM coordinates, NTS map sheets.
- 3e. **Period of record:**
- 3f. **Update frequency:** Will not be updated.
- 4a. **Database storage format:** Hardcopy, mylar map sheets, diskette.
- 4b. **Database computer environment:** PC, PAMAP GIS, FOX-PRO.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Ecology; North; Plants; Geographic Information System
11. **Additional information:** None.

Violations

VIO-0372-E

1. **Summary description:** An inventory of details of known violations of Acts administered by Yukon Renewable Resources.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Mr. Mark Hoffman, Director, Field Services Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-5786 *Facsimile:* (403) 667-2591
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - location
 - details of violation
- 3b. **Data acquisition methods:** Reports. Data input by departmental staff.
- 3c. **Geographic coverage:** Yukon.
- 3d. **Geographic units of measure:** Location.
- 3e. **Period of record:** Not applicable.
- 3f. **Update frequency:** Ongoing.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** Database is confidential.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Enforcement; North; Regulation
11. **Additional information:** None.

Watson-Wheaton Resource Inventory Study

WWR-0361-E

1. **Summary description:** A comprehensive resource inventory of the Watson-Wheaton area to be used for land use planning and the land use application review process.

- 2a. Responsible organization:** Department of Renewable Resources
- 2b. Database contact:** Ms. Yvonne Harris, Manager, Planning and Resource Policy, Policy and Planning Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-5967 *Facsimile:* (403) 667-3641
 Mr. David Murray, Agriculture Branch
Phone: (403) 667-3699 *Facsimile:* (403) 668-3955
 Ms. Catherine Kennedy, Vegetation Specialist, Habitat Management, Fish and Wildlife Branch
Phone: (403) 667-5407 *Facsimile:* (403) 668-4363
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- archaeological sites (elevation, reporter, year, age, context, status)
 - existing land use
 - potential terrain hazards
 - land capability (residential, forestry, agricultural)
 - vegetation
 - mineral occurrences
 - wildlife key areas
 - recreation features inventory
- 3b. Data acquisition methods:** Inventory. Data input by departmental staff.
- 3c. Geographic coverage:** Watson-Wheaton area, Yukon.
- 3d. Geographic units of measure:** UTM coordinates, NTS map sheets.
- 3e. Period of record:** Not applicable.
- 3f. Update frequency:** Will not be updated.
- 4a. Database storage format:** Hardcopy.
- 4b. Database computer environment:** Not applicable.
- 5. Restrictions and conditions:** By request and with the approval of Carcross First Nation.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Geography; Land use; North
- 11. Additional information:** Exact location of archaeological sites is confidential.

Wildlife Key Habitat Database and Maps

WKH-0338-E

- 1. Summary description:** An inventory of wildlife key habitat areas for selected wildlife species determined by using data collected from all available sources. The database is used for land application review, habitat protection, land use planning and to determine wildlife/habitat relationships.
- 2a. Responsible organization:** Department of Renewable Resources
- 2b. Database contact:** Ms. Val Lowen, Habitat Inventory Coordinator, Habitat Management, Fish and Wildlife Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-5281 *Facsimile:* (403) 668-4363
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- wildlife distribution
 - key habitat area (points and polygons)
 - key area number
 - location (NTS, quad, UTM, ecoregion, drainage basin, GMZ, GMS)

- species
- season
- function

- 3b. Data acquisition methods:** Various.
- 3c. Geographic coverage:** Yukon.
- 3d. Geographic units of measure:** UTM coordinates, NTS map sheets.
- 3e. Period of record:** Not applicable.
- 3f. Update frequency:** Irregularly - as required.
- 4a. Database storage format:** Mylar, paper or digital, depending on level (see 11).
- 4b. Database computer environment:** PC, SAS, DBASE IV, PA-MAP GIS, FOXPRO.
- 5. Restrictions and conditions:** Some level 3 maps have restricted distribution.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** Habitats; North; Wildlife; Geographic Information System
- 11. Additional information:** There are three levels to the maps: Level 1 - 1:1 000 000, paper maps; Level 2 - 1:250 000, mylar maps and some digital; Level 3 - various scales, usually 1:250 000, paper maps, some source data is digital.

Wildlife Relocation Databases and Maps

WRD-0348-E

- 1. Summary description:** Point relocations of radio-collared wildlife such as moose, caribou, sheep, bears, elk, bison, furbearers, wolves, and birds.
- 2a. Responsible organization:** Department of Renewable Resources
- 2b. Database contact:** Mr. Doug Larsen (and other wildlife biologists), Moose Biologist, Wildlife Management, Fish and Wildlife Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-5787 *Facsimile:* (403) 668-4363
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
- species (moose, caribou, sheep, bears, elk, bison, furbearers, wolves, birds)
 - ID, age, sex
 - UTM coordinates
 - latitude and longitude
 - survey (date, type, time)
- 3b. Data acquisition methods:** Field survey. Data input by departmental staff.
- 3c. Geographic coverage:** Yukon.
- 3d. Geographic units of measure:** Latitude and longitude, UTM coordinates.
- 3e. Period of record:** Not applicable.
- 3f. Update frequency:** Varies daily to annually.
- 4a. Database storage format:** Hardcopy, diskette.
- 4b. Database computer environment:** PC, SAS.
- 5. Restrictions and conditions:** Raptor locations are confidential.
- 6. Price information:** No charge.
- 7. Corresponding printed sources:** None.
- 8. Languages:** English.
- 9. User aids available:** None.
- 10. Keywords:** North; Research; Wildlife

11. Additional information: None.

Wildlife Specimen Collection

WSC-0374-E

- 1. Summary description:** An inventory of the locations of collected specimens (wolves, furbearers, birds).
 - 2a. Responsible organization:** Department of Renewable Resources
 - 2b. Database contact:** Mr. Dave Mossop, Senior Small Game Biologist, Wildlife Management, Fish and Wildlife Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-5766 *Facsimile:* (403) 668-4363
 - 2c. Access mechanisms:** Through the responsible organization.
 - 3a. Parameters measured:**
 - point location where specimen was collected
 - specimen (species, sex, age, condition)
 - 3b. Data acquisition methods:** Field studies. Data input by departmental staff.
 - 3c. Geographic coverage:** Yukon.
 - 3d. Geographic units of measure:** UTM coordinates, latitude and longitude.
 - 3e. Period of record:** Not applicable.
 - 3f. Update frequency:** Annually.
 - 4a. Database storage format:** Hardcopy, diskette.
 - 4b. Database computer environment:** PC, SAS.
 - 5. Restrictions and conditions:** None.
 - 6. Price information:** No charge.
 - 7. Corresponding printed sources:** None.
 - 8. Languages:** English.
 - 9. User aids available:** None.
 - 10. Keywords:** Biota; North; Wildlife
 - 11. Additional information:** None.
-

Wildlife Surveys

WS-0339-E

- 1. Summary description:** Distribution of wildlife including locations, numbers and sample units for moose, caribou, sheep, goats, furbearers, wolves, birds, elk and bison.
- 2a. Responsible organization:** Department of Renewable Resources
- 2b. Database contact:** Mr. Doug Larsen, Moose Biologist, Wildlife Management, Fish and Wildlife Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-5787 *Facsimile:* (403) 668-4363
- 2c. Access mechanisms:** Through the responsible organization.
- 3a. Parameters measured:**
 - sample unit
 - wildlife and wildlife sign location
 - outfitter area
 - ecoregion
 - date
 - elevation, aspect
 - wildlife (sex, age, numbers, classes)
- 3b. Data acquisition methods:** Survey. Data input by departmental staff.
- 3c. Geographic coverage:** Yukon.
- 3d. Geographic units of measure:** UTM coordinates, NTS map sheets latitude and longitude.
- 3e. Period of record:** Not applicable.

- 3f. Update frequency:** See 11.
 - 4a. Database storage format:** Hardcopy, diskette.
 - 4b. Database computer environment:** PC, SAS.
 - 5. Restrictions and conditions:** Raptor nest, sheep and goat locations are confidential.
 - 6. Price information:** No charge.
 - 7. Corresponding printed sources:** None.
 - 8. Languages:** English.
 - 9. User aids available:** None.
 - 10. Keywords:** North; Population; Wildlife
 - 11. Additional information:** For Moose - annually for Intensive Survey, 3-5 years for Trend Survey. Other species are variable.
-

Woodcutting Maps

WCM-0335-E

- 1. Summary description:** An inventory of woodcutting access trails and suitable woodcutting areas.
 - 2a. Responsible organization:** Department of Renewable Resources
 - 2b. Database contact:** Mr. Chuck Hubert, Environmental Assessment Technician, Environmental Protection and Assessment Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-8129 *Facsimile:* (403) 667-3641
 - 2c. Access mechanisms:** Through the responsible organization.
 - 3a. Parameters measured:**
 - roads
 - access trails
 - woodcutting areas
 - cadastral information
 - 3b. Data acquisition methods:** Aerial photographs. Data input and interpreted by departmental staff.
 - 3c. Geographic coverage:** Whitehorse area, Yukon.
 - 3d. Geographic units of measure:** UTM coordinates, NTS map sheets.
 - 3e. Period of record:** Not applicable.
 - 3f. Update frequency:** Every 3 to 6 months.
 - 4a. Database storage format:** Hardcopy.
 - 4b. Database computer environment:** Not applicable.
 - 5. Restrictions and conditions:** None.
 - 6. Price information:** No charge.
 - 7. Corresponding printed sources:** None.
 - 8. Languages:** English.
 - 9. User aids available:** None.
 - 10. Keywords:** Forestry; Harvesting; North
 - 11. Additional information:** None.
-

Woodcutting Permit Database

WPD-0368-E

- 1. Summary description:** An inventory of woodcutting permit authorizations.
- 2a. Responsible organization:** Department of Renewable Resources
- 2b. Database contact:** Mr. Chuck Hubert, Environmental Assessment Technician, Environmental Protection and Assessment Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-8129 *Facsimile:* (403) 667-3641
- 2c. Access mechanisms:** Through the responsible organization.

3a. Parameters measured:

- applicant
- woodcutting volume
- expiry date

3b. Data acquisition methods: Inventory. Permits.**3c. Geographic coverage:** Whitehorse area.**3d. Geographic units of measure:** Not applicable.**3e. Period of record:** 1987 to present.**3f. Update frequency:** Ongoing, as required.**4a. Database storage format:** Hardcopy.**4b. Database computer environment:** Not applicable.**5. Restrictions and conditions:** None.**6. Price information:** No charge.**7. Corresponding printed sources:** None.**8. Languages:** English.**9. User aids available:** None.**10. Keywords:** Forestry; Harvesting; North**11. Additional information:** None.**Yukon Biological Submission Database**

YBS-0345-E

1. Summary description: Biological data taken from harvested wildlife (sheep, goat, grizzly bear and black bear).**2a. Responsible organization:** Department of Renewable Resources**2b. Database contact:** Ms. Jean Carey, Sheep and Goat Biologist, Wildlife Management, Fish and Wildlife Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6

Phone: (403) 667-5849 Facsimile: (403) 668-4363

Mr. Cor Smits, Special Projects Biologist (Bears)

Phone: (403) 667-5087 Facsimile: (403) 667-4363

2c. Access mechanisms: Through the responsible organization.**3a. Parameters measured:**

- year
- hunter days
- habitat
- kill date
- location (ecoregion, bear management area, outfitter area, game management area)

3b. Data acquisition methods: Mandatory submission for monitoring. Information is obtained through YBS (Yukon Biological Submission) forms.**3c. Geographic coverage:** Yukon.**3d. Geographic units of measure:** Ecoregion, game management area, outfitter area.**3e. Period of record:** 1973 to present.**3f. Update frequency:** Annually.**4a. Database storage format:** Hardcopy, diskette.**4b. Database computer environment:** PC, SAS.**5. Restrictions and conditions:** Data are confidential.**6. Price information:** No charge.**7. Corresponding printed sources:** None.**8. Languages:** English.**9. User aids available:** None.**10. Keywords:** Biota; North; Wildlife**11. Additional information:** None.**Yukon First Nations Traditional Territories
(Band Areas)**

YFN-0334-E

1. Summary description: A map indicating boundaries of traditional territories for each Yukon First Nation, used for land use planning, land application review and harvest analysis.**2a. Responsible organization:** Department of Renewable Resources**2b. Database contact:** Ms. Tena Fox, Data Administrator, Administration Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6

Phone: (403) 667-8558 Facsimile: (403) 667-2438

2c. Access mechanisms: Through the responsible organization.**3a. Parameters measured:**

- GMZ
- GMS
- band (name, number)
- boundaries (actual - for traditional territories (overlapping), revised - to match GMZ's for analysis)

3b. Data acquisition methods: Reports. Data input by departmental staff.**3c. Geographic coverage:** Yukon.**3d. Geographic units of measure:** UTM coordinates, NTS map sheets.**3e. Period of record:** Not applicable.**3f. Update frequency:** As required.**4a. Database storage format:** Hardcopy, mylar map sheets.**4b. Database computer environment:** PC, SAS.**5. Restrictions and conditions:** None.**6. Price information:** No charge.**7. Corresponding printed sources:** None.**8. Languages:** English.**9. User aids available:** None.**10. Keywords:** Geography; Land use; North**11. Additional information:** None.**Yukon Herbarium Database**

YHD-0373-E

1. Summary description: A catalogue of plants in Yukon Herbarium.**2a. Responsible organization:** Department of Renewable Resources**2b. Database contact:** Ms. Catherine Kennedy, Vegetation Specialist, Habitat Management, Fish and Wildlife Branch, Department of Renewable Resources, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6

Phone: (403) 667-5407 Facsimile: (403) 668-4363

2c. Access mechanisms: Through the responsible organization.**3a. Parameters measured:**

- collection site data (ecoregion, ecodistrict, latitude and longitude, elevation, aspect slope)
- species (genus, variety name, authorities)
- collector (collection date, verifier)

3b. Data acquisition methods: Survey. Data input by departmental staff.**3c. Geographic coverage:** Yukon.**3d. Geographic units of measure:** Latitude and longitude.**3e. Period of record:** Not applicable.**3f. Update frequency:** As required.**4a. Database storage format:** Hardcopy, diskette.

- 4b. **Database computer environment:** PC, SAS.
 5. **Restrictions and conditions:** None.
 6. **Price information:** No charge.
 7. **Corresponding printed sources:** None.
 8. **Languages:** English.
 9. **User aids available:** None.
 10. **Keywords:** Botany; North; Plants
 11. **Additional information:** None.

Yukon Lakes Database

YLK-0202-E

1. **Summary description:** Data on specific lakes in Yukon including geographic information, technical characteristics, and known interests of lakes.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Mr. Perry Diamond, Environmental Resource Planner, Policy and Planning Branch, Department of Renewable Resources, Government of Yukon, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-3573 *Facsimile:* (403) 667-2438
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- variables in the lake specific data sets by region (name, map sheet, latitude and longitude, location, access type)
 - technical characteristics of waterbody and shoreline (area, perimeter, surface elevation, depth, vegetation, TDS, MEI, fish type, recreation potential)
 - known interests in specific lakes (land claims, CWO interests, wildlife, waterfowl)
- 3b. **Data acquisition methods:** Mapping, research. Information gathered from 1:250 000 and 1:50 000 scale maps and from the report - *Study of Recreation Potential of Lakes in Yukon River Drainage*, 1981.
- 3c. **Geographic coverage:** Yukon.
- 3d. **Geographic units of measure:** Regional planning regions.
- 3e. **Period of record:** The database was last updated August 8, 1991.
- 3f. **Update frequency:** Variable.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** PC, DBASE, PCFILE.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Lakes; North; Water
11. **Additional information:** Database will be used to help develop Yukon lakeshore guidelines.



Department of Tourism

Yukon Archaeological Sites Database

ARC-0179-E

1. **Summary description:** A database containing a combination of site location and site description information for archaeological sites in Yukon Territory.

- 2a. **Responsible organization:** Department of Tourism
- 2b. **Database contact:** Dr. Ruth Gotthardt, Yukon Archaeologist, Heritage Branch, Department of Tourism, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-5983 *Facsimile:* (403) 667-2634
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- researcher identification
 - site location (borden number, latitude and longitude)
- 3b. **Data acquisition methods:** Field survey and collection. Field measurements, conventional photography, maps, books, reports.
- 3c. **Geographic coverage:** Yukon.
- 3d. **Geographic units of measure:** Latitude and longitude, UTM coordinates.
- 3e. **Period of record:** Prehistoric to 1950's.
- 3f. **Update frequency:** Periodically or annually.
- 4a. **Database storage format:** Magnetic disk/tape, electronic communication.
- 4b. **Database computer environment:** PC, DBASE III, FOXPRO, QUICKMAP, CARIS GIS.
5. **Restrictions and conditions:** On request with some restrictions.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Archaeology; Artifacts; Geographic Information System; North
11. **Additional information:** This database is directly related to the Canadian Heritage Information Network.

Yukon Historic Sites Inventory

YHI-0187-E

1. **Summary description:** A comprehensive database of Yukon's historic resources including architectural resources, landscape features, and industrial architecture. The database enables effective decision making through the identification and evaluation of resources for their historic significance and development potential. It also enables us to plan for future development that need not destroy Yukon's heritage.
- 2a. **Responsible organization:** Department of Tourism
- 2b. **Database contact:** Mr. Bruce Barrett, Historic Sites Technician, Heritage Branch, Department of Tourism, P.O. Box 2703, Whitehorse, Y.T. Y1A 2C6
Phone: (403) 667-3463 *Facsimile:* (403) 667-2643
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- research information (location, legal status of the land, thematic associations, resource history)
 - on-site recording (access to site, size, condition, present use)
- 3b. **Data acquisition methods:** On-site research and recording, plotting on aerial or National Topographic Series maps.
- 3c. **Geographic coverage:** Yukon.
- 3d. **Geographic units of measure:** UTM coordinates, latitude and longitude.
- 3e. **Period of record:** 1986 to present.
- 3f. **Update frequency:** Continual.
- 4a. **Database storage format:** Hardcopy, hard disk, photographs, slides.
- 4b. **Database computer environment:** PC, Q&A, FILEMAKER PRO for Windows.

5. **Restrictions and conditions:** Some information may be restricted.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Internal reports. Also, Rob Ingram and Helen Dobrowolsky, *Edge of the River, Heart of the City - A History of the Whitehorse Waterfront*, 1992.
8. **Languages:** English.
9. **User aids available:** User's manual and guide are available.
10. **Keywords:** History; Land use; North
11. **Additional information:**
 1. Inventory information is used to plan for appropriate uses of Yukon lands. All land use applications are checked against the inventory.
 2. Database is related to Canadian Register of Heritage Properties.

NORTHWEST TERRITORIES



Department of Education, Culture and Employment

Northwest Territories Geographic Names Database

NWT-0168-E

1. **Summary description:** A database containing locational and historical data on all official, previously official and historic geographical and place names in the Northwest Territories.
- 2a. **Responsible organization:** Department of Education, Culture and Employment
- 2b. **Database contact:** Mr. Randolph Freeman, Territorial Toponymist, Culture and Heritage Branch, Department of Education, Culture and Employment, P.O. Box 1320, Yellowknife, N.W.T. X1A 2L9
Phone: (403) 920-8854 *Facsimile:* (403) 873-0205
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- geographical place names (history)
- 3b. **Data acquisition methods:** Information was gathered from many sources, such as the Geographic Board of Canada, contractors, maps, reports, books. Most recent information gathered through field surveys.
- 3c. **Geographic coverage:** Northwest Territories.
- 3d. **Geographic units of measure:** Latitude and longitude, UTM coordinates.
- 3e. **Period of record:** Official names: 1897 to present. Historic names: 1500's to present. Traditional names: 10 000 B.C. to present.
- 3f. **Update frequency:** Continual.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** PC, FOXPRO.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Department of Education, Culture and Employment, GNWT, *Geographic Names of the Northwest Territories: Igloolik and Hall Beach Areas*, 1993.
8. **Languages:** English.
9. **User aids available:** Program manual available for using database.
10. **Keywords:** Geography; Landscape; North
11. **Additional information:**
 1. Data from archival/library sources is spotty for all time periods and locations.
 2. Some areas of Northwest Territories have been covered more extensively than others.
 3. This database is related to the Canadian Geographical Names Database.



Department of Government Services and Public Works

Motor Vehicle Registration Database

VEH-0412-E

1. **Summary description:** A database of motor vehicle registrations for the Northwest Territories.
- 2a. **Responsible organization:** Department of Government Services and Public Works
- 2b. **Database contact:** Mr. Todd Smith, Senior Project Manager, Systems and Communications, Department of Government Services and Public Works, P.O. Box 1320, Yellowknife, N.W.T. X1A 2L9
Phone: (403) 920-8793 *Facsimile:* (403) 873-0192
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- vehicle (val tag, vin number)
- plate (number, type)
- fee paid
- expiry date
- 3b. **Data acquisition methods:** Vehicle registration forms. Vehicle registrations renewed annually.
- 3c. **Geographic coverage:** Northwest Territories.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1989 to present.
- 3f. **Update frequency:** Daily.
- 4a. **Database storage format:** Hard disk, tape.
- 4b. **Database computer environment:** HP 955.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** User documentation.
10. **Keywords:** North; Transportation; Vehicles
11. **Additional information:** None.

Vital Database

VDB-0421-E

1. **Summary description:** Vital statistics registration database (entry and inquiry screens).
- 2a. **Responsible organization:** Department of Government Services and Public Works
- 2b. **Database contact:** Mr. Todd Smith, Systems Analyst, Department of Government Services and Public Works, Box 1320, Yellowknife, N.W.T. X1A 2L9
Phone: (403) 920-8793 *Facsimile:* (403) 873-0192
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- date and place of (birth, death, marriage)
- ethnic origin
- marital status
- typical vital statistics data
- 3b. **Data acquisition methods:** Birth, death, marriage and still-birth registration forms from hospitals and health centres.
- 3c. **Geographic coverage:** Northwest Territories.

- 3d. **Geographic units of measure:** Community code.
- 3e. **Period of record:** 1985 to present.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Hard disk, diskette.
- 4b. **Database computer environment:** HP mainframe.
- 5. **Restrictions and conditions:** None.
- 6. **Price information:** Per current chargeback rates.
- 7. **Corresponding printed sources:** None.
- 8. **Languages:** English.
- 9. **User aids available:** None.
- 10. **Keywords:** Health; Human Health; North
- 11. **Additional information:** None.



Department of Renewable Resources

Burn History of the Beverly/Qamanirjak Caribou Range

BHB-0242-E

- 1. **Summary description:** A fire history of the caribou range.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Mr. Helmut Epp, Director, Centre for Remote Sensing, Department of Renewable Resources, 7th Floor Scotia Centre, Box 21, 600, 5102 - 50th Avenue, Yellowknife, N.W.T. X1A 3S8
Phone: (403) 920-3329 *Facsimile:* (403) 873-0221
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- spatial distribution of fires
- 3b. **Data acquisition methods:** TM satellite imagery interpretation.
- 3c. **Geographic coverage:** Northwest Territories, Northern Saskatchewan, and Northern Manitoba.
- 3d. **Geographic units of measure:** Caribou range.
- 3e. **Period of record:** 1890 to 1989.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Magneto optical laser disk.
- 4b. **Database computer environment:** PC, SPANS GIS.
- 5. **Restrictions and conditions:** None.
- 6. **Price information:** There is a small fee.
- 7. **Corresponding printed sources:** None.
- 8. **Languages:** English.
- 9. **User aids available:** None.
- 10. **Keywords:** Fire; Geographic Information System; North; Wildlife
- 11. **Additional information:** None.

Caribou Data

CD-0420-E

- 1. **Summary description:** Contains caribou physical condition data from several field collections and locations.
- 2a. **Responsible organization:** Department of Renewable Resources

- 2b. **Database contact:** Mr. Mark Williams, A/Caribou Biologist, Wildlife Management, Department of Renewable Resources, 600, 5102 - 50th Avenue, Yellowknife, N.W.T. X1A 3S8
Phone: (403) 920-8071 *Facsimile:* (403) 873-0293
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- caribou (age, size, condition, reproductive status, history)
- diet (composition, quality)
- parasite infestations
- caribou herd
- year (collection period)
- kill (date, location)
- 3b. **Data acquisition methods:** Field surveys by departmental biologists, reports.
- 3c. **Geographic coverage:** Northwest Territories.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1989 to present.
- 3f. **Update frequency:** As further data collections occur.
- 4a. **Database storage format:** Hard disk, diskette.
- 4b. **Database computer environment:** PC, SAS.
- 5. **Restrictions and conditions:** Some restrictions may apply. See data centre contact.
- 6. **Price information:** No charge.
- 7. **Corresponding printed sources:** None.
- 8. **Languages:** English.
- 9. **User aids available:** None.
- 10. **Keywords:** Biology; Mammals; North
- 11. **Additional information:** None.

Commercial Harvest Record

CHR-0410-E

- 1. **Summary description:** Information on the Northwest Territories commercial wildlife harvest.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Mr. Jeff Watt, Wildlife Policy Analyst, Wildlife Management, Department of Renewable Resources, 600, 5102 - 50th Avenue, Yellowknife, N.W.T. X1A 3S8
Phone: (403) 873-7778 *Facsimile:* (403) 873-0293
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- species (type, number harvested, location, date)
- 3b. **Data acquisition methods:** Monitoring. Data gathered by department staff during commercial harvest.
- 3c. **Geographic coverage:** Northwest Territories.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1993 to present.
- 3f. **Update frequency:** Bi-annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, EXCEL.
- 5. **Restrictions and conditions:** None.
- 6. **Price information:** No charge.
- 7. **Corresponding printed sources:** None.
- 8. **Languages:** English.
- 9. **User aids available:** None.
- 10. **Keywords:** Harvesting; North; Wildlife
- 11. **Additional information:** This is a new database and is still under development.

Community Planning Mapping Project

CPM-0243-E

1. **Summary description:** Vegetation classification of fuel types (vegetation that could feed forest fires) 25 km around 29 communities.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Mr. Helmut Epp, Director, Centre for Remote Sensing, Department of Renewable Resources, 7th Floor Scotia Centre, Box 21, 600, 5102 - 50th Avenue, Yellowknife, N.W.T. X1A 3S8
Phone: (403) 920-3329 *Facsimile:* (403) 873-0221
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- 6 to 10 vegetation types
- 3b. **Data acquisition methods:** TM satellite imagery interpretation, 1:50 000 NTS map sheets.
- 3c. **Geographic coverage:** Communities in the Northwest Territories that are within the treeline.
- 3d. **Geographic units of measure:** 25 m pixels.
- 3e. **Period of record:** 1990 to present.
- 3f. **Update frequency:** Has not been updated.
- 4a. **Database storage format:** Diskette, tape, erasable optical laser disk.
- 4b. **Database computer environment:** MICROVAX, ARIES III, PC, SPANS GIS.
5. **Restrictions and conditions:** None.
6. **Price information:** Small fee.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Environmental Science; North; Trees; Geographic Information System
11. **Additional information:** None.

Fire History of the Northwest Territories

FIR-0245-E

1. **Summary description:** An inventory of the spatial extent of fires in the Northwest Territories.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Mr. Helmut Epp, Director, Centre for Remote Sensing, Department of Renewable Resources, 7th Floor Scotia Centre, Box 21, 600, 5102 - 50th Avenue, Yellowknife, N.W.T. X1A 3S8
Phone: (403) 920-3329 *Facsimile:* (403) 873-0221
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- fire perimeters
- 3b. **Data acquisition methods:** Imagery, mapping, TM satellite imagery interpretation.
- 3c. **Geographic coverage:** Western Northwest Territories within the treeline.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1967 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Diskette, tape.
- 4b. **Database computer environment:** PC, SPANS GIS.
5. **Restrictions and conditions:** None.

6. **Price information:** Small fee.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Fire; Forestry; Geographic Information System; North
11. **Additional information:** None.

Forest Production Summary

FPS-0423-E

1. **Summary description:** A database of the volume of timber harvested by area.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Mr. C. Carlisle, Area Forester, Fort Smith Area, Department of Renewable Resources, Box 390, Fort Smith, N.W.T. X0E 0P0
Phone: (403) 872-4242 *Facsimile:* (403) 872-4250
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- species
- product (sawlogs, fuelwood, Xmas trees)
- type of authorization (licenses, permits)
- timber charges
- 3b. **Data acquisition methods:** Application and permit forms. Data collected by departmental Field Officers and submitted on a monthly basis.
- 3c. **Geographic coverage:** Western Northwest Territories.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1987 to present.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Harvesting; Forestry; North
11. **Additional information:** This database is being expanded to include other forest statistical information for a Northwest Territories Forest Database Program.

Game Licence System

GLS-0408-E

1. **Summary description:** Records all licences covered under the Wildlife Act (hunting, fishing, tags issued).
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Ms. Amy Rafuse, Systems Coordinator, Finance and Administration, Department of Renewable Resources, 600, 5102 - 50th Avenue, Yellowknife, N.W.T. X1A 3S8
Phone: (403) 873-7754 *Facsimile:* (403) 873-0114
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- number (licenses, tags)
- origin of hunter and fishermen
- 3b. **Data acquisition methods:** Monitoring. Monthly returns (licences sold) to regional offices entered directly into the system.

- 3c. **Geographic coverage:** Northwest Territories.
- 3d. **Geographic units of measure:** Community.
- 3e. **Period of record:** 1990 to present.
- 3f. **Update frequency:** Daily.
- 4a. **Database storage format:** Hardcopy, hard drive.
- 4b. **Database computer environment:** HP3000 mainframe. PC.
- 5. **Restrictions and conditions:** None.
- 6. **Price information:** No charge.
- 7. **Corresponding printed sources:** None.
- 8. **Languages:** English.
- 9. **User aids available:** User's manual, technical manual.
- 10. **Keywords:** North; Regulation; Wildlife
- 11. **Additional information:** None.

Hazardous Materials Spill Database

HMS-0184-E

- 1. **Summary description:** A database of hazardous material spills reported to the Northwest Territories 24-hour Spill Report Line Service.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Manager, Land Protection Division, Department of Renewable Resources, Scotia Centre, Box 21, 600, 5102 - 50th Avenue, Yellowknife, N.W.T. X1A 3S8
Phone: (403) 873-7654 *Facsimile:* (403) 873-0221
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - spill (number, date, location)
 - commodity spilled (volume/quantity)
 - party responsible (source, cause, reason)
- 3b. **Data acquisition methods:** Voluntary/mandatory reporting of spills received over the NWT 24-hour Spill Report Line.
- 3c. **Geographic coverage:** Northwest Territories.
- 3d. **Geographic units of measure:** Location.
- 3e. **Period of record:** 1981 to present.
- 3f. **Update frequency:** Monthly.
- 4a. **Database storage format:** Diskettes.
- 4b. **Database computer environment:** PC, RBASE.
- 5. **Restrictions and conditions:** None.
- 6. **Price information:** No charge.
- 7. **Corresponding printed sources:** None.
- 8. **Languages:** English.
- 9. **User aids available:** None.
- 10. **Keywords:** Contaminants; North; Spills
- 11. **Additional information:** Intention is to input further historical data back as far as 1972.

Northwest Territories Fur Harvest Statistics

NWT-0407-E

- 1. **Summary description:** Individual, community and territorial fur statistics.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Mr. K. G. Poole, Furbearer Biologist, Wildlife Management, Department of Renewable Resources, 600, 5102 - 50th Avenue, Yellowknife, N.W.T. X1A 3S8
Phone: (403) 920-6315 *Facsimile:* (403) 873-0293
- 2c. **Access mechanisms:** Through the responsible organization.

- 3a. **Parameters measured:**
 - pelts (number, price for each trapper)
 - species (22 types)
- 3b. **Data acquisition methods:** Monitoring. Fur return system.
- 3c. **Geographic coverage:** Northwest Territories.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1957 to present. Coverage includes: all of Northwest Territories from 1957 to present; community from 1970 to present; individual from 1986 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hard drive, tape.
- 4b. **Database computer environment:** PC.
- 5. **Restrictions and conditions:** Individual data is confidential.
- 6. **Price information:** No charge.
- 7. **Corresponding printed sources:** None.
- 8. **Languages:** English.
- 9. **User aids available:** None.
- 10. **Keywords:** Harvesting; North; Wildlife
- 11. **Additional information:** None.

Polar Bear Database

PBD-0418-E

- 1. **Summary description:** Documents mensural and behavioural data of live-captured polar bears, movements of radio-collared polar bears and details of the quota harvest.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Dr. Mitchell K. Taylor, Polar Bear Biologist, Wildlife Management, Department of Renewable Resources, 600, 5102 - 50th Avenue, Yellowknife, N.W.T. X1A 3S8
Phone: (403) 873-7764 *Facsimile:* (403) 873-0293
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - live captures (mensural data, location(s))
 - radio-telemetry (movements (locations))
 - quota harvest (native sport harvest by community, problem bear kills)
- 3b. **Data acquisition methods:** Quota system reporting, satellite monitoring. Hunters report kills to their own organization and the Renewable Resource Officer in their community. All hides must be tagged by an officer. Locations of radio-collared bears are done by satellite (ARGOS).
- 3c. **Geographic coverage:** Circumpolar.
- 3d. **Geographic units of measure:** Latitude and longitude (degrees and minutes).
- 3e. **Period of record:** 1979 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC.
- 5. **Restrictions and conditions:** Some restrictions apply (see 11). See data centre contact.
- 6. **Price information:** Not applicable.
- 7. **Corresponding printed sources:** Various publications, reports and maps.
- 8. **Languages:** English.
- 9. **User aids available:** None.
- 10. **Keywords:** Biology; Mammals; North
- 11. **Additional information:** Access to the harvest component of the database is strictly controlled but the research component (radio-locations) is more accessible to scientists.

Productivity of Central Arctic Geese

PCA-0406-E

1. **Summary description:** Annual abundance and productivity of Greater White-fronted Geese and Canada Geese.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Dr. Robert G. Bromley, Waterfowl Biologist, Wildlife Management, Department of Renewable Resources, 600, 5102 - 50th Avenue, Yellowknife, N.W.T. X1A 3S8
Phone: (403) 920-6328 *Facsimile:* (403) 873-0293
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - population surveys (singles, pairs, flocked geese)
 - goose productivity (nest initiation dates, mean clutch size, hatching dates, nest success, egg success)
- 3b. **Data acquisition methods:** Aerial and ground-based field surveys. Departmental biologists field surveys and aerial counts.
- 3c. **Geographic coverage:** 80 by 80 km study area in Northwest Territories.
- 3d. **Geographic units of measure:** UTM coordinates.
- 3e. **Period of record:** 1986 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE, SAS.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Biology; Birds; North
11. **Additional information:** Results from 1986 through to 1992 submitted for publication in *Journal of Wildlife Management*.

Resident Harvester Survey

RHS-0409-E

1. **Summary description:** Survey of resident hunters.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Mr. Adrian D'Hont, Wildlife Biologist, Wildlife Management, Department of Renewable Resources, 600, 5102 - 50th Avenue, Yellowknife, N.W.T. X1A 3S8
Phone: (403) 873-7482 *Facsimile:* (403) 873-0293
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - species (type and number harvested, location)
- 3b. **Data acquisition methods:** Survey. Licensing system.
- 3c. **Geographic coverage:** Northwest Territories.
- 3d. **Geographic units of measure:** Wildlife management zones.
- 3e. **Period of record:** 1981 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, DBASE.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.

10. **Keywords:** Harvesting; North; Wildlife
11. **Additional information:** Survey has a 60 to 70 percent response rate.

Values-at-Risk (Fire)

VAL-0330-E

1. **Summary description:** An inventory of known objects that need protection from fire.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Mr. Helmut Epp, Director, Centre for Remote Sensing, Department of Renewable Resources, 7th Floor Scotia Centre, Box 21, 600, 5102 - 50th Avenue, Yellowknife, N.W.T. X1A 3S8
Phone: (403) 920-3329 *Facsimile:* (403) 873-0221
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - location
 - object (id number)
- 3b. **Data acquisition methods:** Information obtained through community leaders and helicopter survey.
- 3c. **Geographic coverage:** Western arctic within the treeline.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** Current.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC, SPANS GIS.
5. **Restrictions and conditions:** None.
6. **Price information:** Small fee.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Environmental Science; Fire; Geographic Information System; North
11. **Additional information:** None.

Vegetation Classification of Mackenzie River Corridor

VCM-0244-E

1. **Summary description:** An inventory of vegetation types along a 60 kilometer corridor centered on the Mackenzie River.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Mr. Helmut Epp, Director, Centre for Remote Sensing, Department of Renewable Resources, 7th Floor Scotia Centre, Box 21, 600, 5102 - 50th Avenue, Yellowknife, N.W.T. X1A 3S8
Phone: (403) 920-3329 *Facsimile:* (403) 873-0221
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - 20 to 30 vegetation types
- 3b. **Data acquisition methods:** TM satellite imagery interpretation.
- 3c. **Geographic coverage:** 60 km corridor centered on the Mackenzie River (Fort Simpson to Delta).
- 3d. **Geographic units of measure:** 25 m pixels.
- 3e. **Period of record:** 1989 to 1991.
- 3f. **Update frequency:** Has not been updated.
- 4a. **Database storage format:** Diskette, tape, magneto optical laser disk.

- 4b. **Database computer environment:** PC, SPANS GIS.
5. **Restrictions and conditions:** None.
6. **Price information:** Small fee.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Ecology; Geographic Information System; North; Plants
11. **Additional information:** Vegetation classification in progress.

Wolf Den

WD-0405-E

1. **Summary description:** Location of wolf dens in the Northwest Territories.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Mr. Mark Williams, A/Caribou Biologist, Wildlife Management, Department of Renewable Resources, 600, 5102 - 50th Avenue, Yellowknife, N.W.T. X1A 3S8
Phone: (403) 920-8071 *Facsimile:* (403) 873-0293
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - wolf den (location, year active, physical description)
 - number of wolves seen
 - map sheet
- 3b. **Data acquisition methods:** Field surveys by departmental biologists, archeologists field trips.
- 3c. **Geographic coverage:** Northwest Territories.
- 3d. **Geographic units of measure:** Latitude and longitude.
- 3e. **Period of record:** 1972 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hard disk, diskette.
- 4b. **Database computer environment:** PC, DBASE.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Heard and Williams, *Canadian Journal of Zoology* 70(8).
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** Biology; Mammals; North
11. **Additional information:** None.

Yellowknife Ambient Air Quality Data

YAA-0392-E

1. **Summary description:** A high volume air sampler is operated in conjunction with Environment Canada's NAPS program.
- 2a. **Responsible organization:** Department of Renewable Resources
- 2b. **Database contact:** Mr. Jim Sparling, Air Quality Specialist, Environmental Protection Division, Department of Renewable Resources, 600, 5102 - 50 Avenue, Yellowknife, N.W.T. X1A 3S8
Phone: (403) 920-6393 *Facsimile:* (403) 873-0221
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - total suspended particulates
 - lead
 - arsenic
 - nitrate sulphate
- 3b. **Data acquisition methods:** High-volume air sampler. An ambient air sample is collected over a 24 hour period every 6 days.

- 3c. **Geographic coverage:** Yellowknife, Northwest Territories.
- 3d. **Geographic units of measure:** Measurement station.
- 3e. **Period of record:** 1977 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Diskette.
- 4b. **Database computer environment:** PC, LOTUS 123.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** Annual reports are available since 1988.
8. **Languages:** English.
9. **User aids available:** Reference materials available.
10. **Keywords:** Air quality; Contaminants; North
11. **Additional information:** None.



Department of Transportation

Traffic Database

TB-0413-E

1. **Summary description:** A database of traffic information obtained by permanent counting devices.
- 2a. **Responsible organization:** Department of Transportation
- 2b. **Database contact:** Mr. Russell Neudorf, Senior Transportation Planner, Transportation Planning, Department of Transportation, P.O. Box 1320, Yellowknife, N.W.T. X1A 2L9
Phone: (403) 920-3366 *Facsimile:* (403) 920-2565
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
 - average annual daily traffic
 - 8 hour classifications
- 3b. **Data acquisition methods:** Traffic monitoring. 40 permanent traffic counters.
- 3c. **Geographic coverage:** Northwest Territories.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1989 to present.
- 3f. **Update frequency:** Annually.
- 4a. **Database storage format:** Hard disk, diskette.
- 4b. **Database computer environment:** PC, spreadsheet software.
5. **Restrictions and conditions:** None.
6. **Price information:** No charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English.
9. **User aids available:** None.
10. **Keywords:** North; Roads; Transportation
11. **Additional information:** None.



Northwest Territories Water Board

Public Register (Water Licences)

PRW-0419-E

1. **Summary description:** Information pertaining to applications for and issuance of Water Licences.
- 2a. **Responsible organization:** Northwest Territories Water Board
- 2b. **Database contact:** Ms. Pamela Lemouel, Executive Assistant, Northwest Territories Water Board, Box 1500, Yellowknife, N.W.T. X1A 2R3
Phone: (403) 920-8191 *Facsimile:* (403) 873-9572
- 2c. **Access mechanisms:** Through the data centre contact.
- 3a. **Parameters measured:**
- water (flow, use, quality)
- 3b. **Data acquisition methods:** Reports provided by licencees. Inspection reports of water use undertakings provided by the Department of Indian and Northern Affairs.
- 3c. **Geographic coverage:** Northwest Territories.
- 3d. **Geographic units of measure:** Not applicable.
- 3e. **Period of record:** 1972 to present.
- 3f. **Update frequency:** Continual.
- 4a. **Database storage format:** Hardcopy.
- 4b. **Database computer environment:** Not applicable.
5. **Restrictions and conditions:** None.
6. **Price information:** Usually no charge.
7. **Corresponding printed sources:** None.
8. **Languages:** English and French.
9. **User aids available:** None.
10. **Keywords:** Contaminants; North; Water
11. **Additional information:**
 1. The Water Resources Section of the Department of Indian and Northern Affairs in Yellowknife keeps duplicates of this data with more detailed technical information.
 2. The Northwest Territories Water Board is a federal agency.



Science Institute of the Northwest Territories

Science Institute of the Northwest Territories Database on Licensed Research

SIN-0424-E

1. **Summary description:** The database contains information on social and physical scientists who received licences under the Northwest Territories Scientist Act in order to carry out their research in the Northwest Territories. Information about the researcher and their project(s) is included in the database.
- 2a. **Responsible organization:** Science Institute of the Northwest Territories
- 2b. **Database contact:** Science Administrator, Science Advisory Services, Science Institute of the Northwest Territories, Box 1617, Yellowknife, N.W.T. X1A 2P2
Phone: (403) 873-7592 *Facsimile:* (403) 873-0227
- 2c. **Access mechanisms:** Through the responsible organization.
- 3a. **Parameters measured:**
- researcher (name, address, affiliation, telephone/FAX)
- research project (title, objectives, description, location)
- internal administration fields
- 3b. **Data acquisition methods:** Administration of Northwest Territories legislation (Scientists Act). Researchers applying for a research licence supply all information for entry into the database.
- 3c. **Geographic coverage:** Northwest Territories.
- 3d. **Geographic units of measure:** Place names (these could be site-specific or identify a large region), NTS coordinates will be incorporated in 1994.
- 3e. **Period of record:** 1974 to present.
- 3f. **Update frequency:** Daily (see 11).
- 4a. **Database storage format:** Hardcopy, diskette.
- 4b. **Database computer environment:** PC, PARADOX.
5. **Restrictions and conditions:** Some information is not available to the public (see 11).
6. **Price information:** No charge.
7. **Corresponding printed sources:** Annual Compendia of Northwest Territories Research.
8. **Languages:** English.
9. **User aids available:** Internal procedures/operations manuals.
10. **Keywords:** North; Research; Environmental Science
11. **Additional information:**
 1. The database is used as a daily administrative tool as well as an information source.
 2. Information requests are addressed on a case-by-case basis. The database is not accessible outside of the Science Institute.
 3. This database is currently being revised. Among other improvements, the database is being transferred from a single computer/user environment to an intra-agency network system. The Institute is also examining options for increasing access to the database for scientific and non-scientific agencies.

6. References

- Berger, A.R. *Local Responses to Regional and Global Changes: The Scientific Background to TERRAMON*, TERRAMON Report Series No. 1, Memorial University of Newfoundland, St. John's, 1992.
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- Environment Canada and Statistics Canada, *State of the Environment Report for Canada*, Catalogue EN 21-54/1986E, Environment Canada, Ottawa, 1986.
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- Land Registration and Information Service, *Atlantic Coastal Zone Database Directory*, Atlantic Coastal Zone Information Steering Committee, Amherst, 1992.
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- Manitoba Environment, *State of the Environment Report for Manitoba 1993*, Winnipeg, 1993.
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- Spencer, C., *Catalogue of Environmental Data in Atlantic Canada*, Environment Canada, Dartmouth, 1991.
- Statistics Canada and Environment Canada, *Databases for Environmental Analysis: Government of Canada*, Catalogue 11-527E, Statistics Canada, Ottawa, 1992.
- Statistics Canada, *Human Activity and the Environment: A Statistical Compendium*, Catalogue 11-509E, Ottawa, 1986.
- Statistics Canada, *Human Activity and the Environment, 1991*, Catalogue 11-509E, Ottawa, 1991.
- Statistics Canada, *Human Activity and the Environment, 1994*, Catalogue 11-509E, Ottawa, 1994.

7. Additional items

7.1 Environmental database information form

The Environmental Database Information Form is presented on the next two pages. Potential contributors are asked to photocopy, complete and mail (or FAX) the form to the address provided. Contributions may also be provided by telephone or through E-mail (INTERNET). Following the Environmental Database Information Form are descriptions of the data fields to aid in the completion of the form.

ENVIRONMENTAL DATABASE INFORMATION FORM

1a. DATABASE NAME AND ACRONYM:	1b. SUMMARY DESCRIPTION:				
2a. PERIOD OF RECORD: UPDATE FREQUENCY:	2b. ACCESS MECHANISMS: RESTRICTIONS: PRICE INFORMATION:				
3a. NAME AND ADDRESS OF DATA CENTRE CONTACT: Name: Position: Division: Organization: Address: Telephone: () Facsimile: () E-mail:					
<table style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;">3b. TECHNICAL CONTACT:</td> <td style="width: 50%; vertical-align: top;">DATASET INTERNAL ID:</td> </tr> <tr> <td colspan="2" style="height: 150px; vertical-align: top;"> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">3c. INVESTIGATOR:</div> <div style="width: 45%;">3d. ORIGINATING CENTRE:</div> </div> </td> </tr> </table>		3b. TECHNICAL CONTACT:	DATASET INTERNAL ID:	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">3c. INVESTIGATOR:</div> <div style="width: 45%;">3d. ORIGINATING CENTRE:</div> </div>	
3b. TECHNICAL CONTACT:	DATASET INTERNAL ID:				
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">3c. INVESTIGATOR:</div> <div style="width: 45%;">3d. ORIGINATING CENTRE:</div> </div>					

DESCRIPTIONS OF FIELDS USED IN THE ENVIRONMENTAL DATABASE INFORMATION FORM

1a. Database Name and Acronym: The full title of the database and an official acronym.

1b. Summary Description: A short (two-line) descriptive summary of the database including its purpose.

2a. Period of Record: Any additional information regarding the time frame of the database.

Update Frequency: Update frequency of the database (annually, monthly, daily etc.).

2b. Access Mechanisms: The means of accessing the data (a telecommunications network, through the organization etc.).

Restrictions: Access restrictions (departmental staff only etc.).

Price: Database price information.

3a. Name and Address of Data Centre Contact: The person who is to be contacted by users of the database inventory for access or information about the database.

3b. Technical Contact: The person who can answer questions about the contents and methods used to compile the data in the database.

3c. Investigator: The person who led the investigation resulting in the database.

3d. Originating Centre: Name of the organization which originally collected the data.

Dataset Internal ID: The internal dataset identifier (if any).

4a. Parameters Measured: Parameters (variables) measured in the database. This is best entered as a short list (10-20 items) which describe the parameters in general terms.

4b. Data Acquisition Methods: Includes Sensor and Source.

Sensor: Type of mechanism, survey, or monitor used to collect the data.

Source: Information on the specific sensor used to collect the data.

5a. Geographic Coverage: Details concerning the geographic (area) coverage of the database.

5b. Geographic Unit(s) of Measurement: Units of measure used in collecting the data (monitoring stations by LAT/LONG, municipalities, etc.).

6a. Storage Media Used: Storage media used for distribution of data.

6b. Computer Environment: Computer hardware/software environment required to read and/or use the data.

7. Reference Materials: Documents which are based on or have used the contents of the database.

8. Languages Used: Language used in the related software and/or documentation.

9. User Aids Available: Describes documentation (codebooks, user guides, etc.) available concerning the directory entry.

10. Keywords: To be assigned by Statistics Canada.

11. Additional Information: Any additional information about the database.

7.2 List of database titles by subject matter categories

In this report databases have been listed by the responsible department/ministry for each province or territory. To aid users, this section lists the same databases classified by broad subject matter categories. The subject matter headings are drawn from the *Population-Environment-Process Framework (PEP)*. This framework was used as the organizing basis for Statistics Canada's environmental publication *Human Activity and the Environment, 1994*. This framework was also applied to the federal government inventory (Statistics Canada, Environment Canada, 1992). The framework includes categories (see Table 2) on Human Population, Social and Economic institutions and elements of the environment and the processes of interaction that take place among these entities. In many cases databases can be found under a variety of subject headings. For additional information on the PEP framework refer to *Human Activity and the Environment, 1994* (Statistics Canada, 1994).

Table 2
Subject Matter Categories

PEP Subject Category
Population Population Human Health Environmental Regulation, Management and Assessment
Socioeconomic Activities (production, consumption, construction) Manufacturing and Energy Production Transporting Household Consumption Generation of Wastes Management of Wastes Harvesting Extraction of Resources (including water) Restructuring of Land and Water Systems
Natural Systems Water Quality Air Quality Soil Quality Status of Biota (including Wildlife and Fish) Ecosystem State Status of Other Resources (minerals, water quantity) Natural Processes (storms, erosion, etc.)

Databases by Subject Matter

Population

Population

Quebec

Geographic Code for Quebec and Correspondence Tables

Demographic Indicators for Quebec

Population Estimates

Marital Status Statistics

DÉMOMUNI

Alberta

Vital Statistics Information Terminal System

British Columbia

BC Parks Visitor Counts

Yukon

Yukon Archives

Births Database

Deaths Database

Greater Kluane Land Use Plan

Yukon Archaeological Sites Database

Yukon Historic Sites Inventory

Northwest Territories

Northwest Territories Geographic Names Database

Vital Database

Science Institute of the Northwest Territories

Database on Licensed Research

Human Health

Prince Edward Island

Audiology Database

Communicable Disease Registry

Congenital Anomaly Registry

Oncology Registry

Tuberculosis Registry

Nova Scotia

Nova Scotia Cancer Registry

Chemical Quality - Municipal Water Supplies

Naturally Occurring Uranium and Arsenic in Groundwater in Nova Scotia

Nova Scotia Municipal Water Supplies - Treatment Processes

Private Water Supplies - Arsenic Concentrations

Swimming Area Bacteriological Quality - Halifax County

Vital Statistics Registry

West River Water Sampling Program

(Pictou County) - 1991, 1992

New Brunswick

Birth and Death Data in New Brunswick

Public Health Inspection Database

Quebec

Health Indicators

Epidemics that Originate in Water in Quebec

Ontario

Hospital Medical Records Institute

Mortality and Morbidity

Significant Observation Summaries in Environmental Bacteriology

Merged Support System Radiation Protection Service

MOEE Master Beach List

Personal Exposure

Toronto Lead Survey

Manitoba

Manitoba Cancer Registry Sybase Database

Beach Monitoring

Saskatchewan

Pathological Database

Cancer Registry

Hospital Separation Data

Occupational Hygiene Company Files

Alberta

Hospital Medical Records Institute

British Columbia

Mortality Database in British Columbia

Water Sampling Analysis Computer System

Yukon

Births Database

Deaths Database

Northwest Territories

Vital Database

Environmental Regulation, Management and Assessment

Newfoundland

Summary of Pesticide Control Use from Pesticide Control Operators

Prince Edward Island

Department of Environmental Resources

Regulatory Action

Petroleum Storage Tank Management System

Spills

Building and Disposal Permits

Subdivision Permits

Nova Scotia

Base Mapping - Nova Scotia Department of Municipal Affairs

Flood Risk Areas Under Canada/Nova Scotia Flood Damage Reduction Program

Wildlife Habitats - Other

Wildlife Habitats - Wetlands

Pesticide Spray Control System

Salvage Yards Licensing Application

CNSF Programmes Main File

New Brunswick

(Environmental) Approvals

Environmental Emergencies

Hazardous Waste Management System

Occurrence Reporting System

PCB Inventory System

Quebec

Program of Assistance to Improving Fertilizer Management

Database on Industrial Waste Production by 50 Companies Covered by EISL's St. Lawrence Action Plan

Industrial Waste Reduction Program

Register

Network for Monitoring Toxic Substances in the Aquatic Environment

Sources of Industrial Pollution

Monitoring of Stations Built in the Context of the Water Treatment Program

Industrial Depollution Program Incident Monitoring Systems

Environmental Assessment

Foams

Habitat Information System

Ontario

Survey of Pesticide Use in Ontario

Simply Everything About Information Collected Here

Watershed Maps

Saskatchewan

Clean Air Act Permit System

Environmental Assessment Project Tracking System

Environmental Consultant List

Conservation Contacts

Managed Areas

Projects (Conservation)

Alberta

Systems Inventory - Alberta Government

Geophysical Administration Support System

Grant Administration Management System

Pest Management Diagnostic Services

British Columbia

Coastal Data Set Inventory

Mine Development Assessment Process Project Database

Petroleum Titles System

Conservation Officer On-Line Reporting System (COORS)

Dioxins and Furans in the BC Environment

Environmental Legislation Charges and Convictions Database

Floodplain Management Bylaw Index

Pesticide Use Permit

System for Environmental Assessment and Management

Yukon

Violations

Socioeconomic Activities (production, consumption, construction)

Manufacturing and Energy Production

Prince Edward Island

Petroleum Storage Tank Management System

Nova Scotia

Fuel Tax Database

Petroleum Storage Applications

New Brunswick

New Brunswick CFC Inventory Program

Quebec

Annual Economic Accounts - Income and Expenditure

Economic Impact Studies for Quebec

Manufacturing Industries

Private and Public Investment

Labour Force

Industrial Research and Development in Quebec

Inventory of Establishments that Conduct Research and Development in Quebec

Industrial Database

Users of Water

Saskatchewan

Petroleum Production and Disposition System

Alberta

Alberta Geological Survey Coal Database

Mineral Revenues System

Directory of Primary Woods

Geophysical Administration Support System

Timber Damage Assessments

British Columbia

Assessment Report Indexing System

Petroleum Information Management System

Petroleum Titles System

Transporting

Newfoundland

Vehicle Emissions Clinic Data

Domestic Travel Survey

Marine Atlantic Ferry Statistics

Non-Resident Air Exit Surveys

Non-Resident Auto Exit Surveys

Provincial Park Statistics

Provincial Park User Survey
Trans-Labrador Highway Environmental Study
Prince Edward Island
Construction Management System
Driver/Vehicle System
Highway Maintenance Management System
Integrated Traffic Management System (ITMS)
Single Application Vehicle Registration

Nova Scotia

Forest Treatment Database
Campground Demand
Campground Supply
Tally of Motor Vehicles
Traffic Volumes Database
Halifax/Dartmouth Commutershed Planimetric Database
Nova Scotia 1:500 000 Planimetric Database
Urban Topographic Databases of Nova Scotia 1:2 000

New Brunswick

Forest Roads
Provincial Highway System
Vehicle Registrations

Quebec

Economic Impact Studies for Quebec
Labour Force
Regional Maps of Quebec
Topographical Maps (1:20 000)
Data on the Navigability of Lakes
Accidents
Scientific and Technical Activities of the Ministère des Transports du Québec
Traffic
General Transportation Data, Montreal Area
Winter Maintenance
Inventory of Transport Infrastructures
Physical Inventory and Inventory of Mechanical Shops
MTQ Investment in Quebec
Daily Reports
Public Transit
School Transportation
ZEC (Controlled Harvesting Zones) Information System

Ontario

Highway Inventory Management System
Project Information Management System
Provincial Salt and Sand Use
Traffic Volume Information System

Manitoba

Noise Monitoring Database
Highway Inventory
Motor Vehicle System
Northern Airports Activity Summary
Traffic Data

Saskatchewan

General Purpose Base Map Data Set
Rural Cadastral Base Map Data Set
Township Fabric Base Map Data Set
Urban Cadastral Base Map Data Set
An Inventory of Forest Roads in Saskatchewan

Alberta

Alberta Motor Vehicles
Automated Land Information System
Consolidated Traffic Information System
Construction and Financial Reporting System
Construction Program Management System
Highway Information System
Origin Destination Information System
Sand/Salt Utilization Program
Traffic Counter System
Weighted Traffic Volume Information System
Digital Base Map (1:20 000)
Digital Base Maps
British Columbia
Executive Network Information System
Micro Traffic System
Ministry of Highways Remote Weather Stations
Traffic Survey Inventories
Wildlife Accident Record System

Yukon

Vehicle Registration System
Dempster Highway Management Strategy
Dempster Highway Surficial Inventory
Roads, Trails and Special Areas
Northwest Territories
Motor Vehicle Registration Database
Traffic Database

Household Consumption

Prince Edward Island

Property Assessment Tax System (PATS)
Building Permits
Subdivision Permits

Nova Scotia

Rural Settlement Pattern, Settlement Record and Agricultural Land Use

New Brunswick

Recycler List
Property Taxation Assessment System

Quebec

Annual Economic Accounts - Income and Expenditure
Survey of Household Appliances, by Income
Economic Impact Studies for Quebec
Private and Public Investment
Labour Force
Users of Water
Archipelago Project

Manitoba

Manitoba Assessment Computer System

Yukon

Yukon Archives
Indian Harvest Survey

Generation of Wastes

Nova Scotia

PCB Inventory System

New Brunswick

Beverage Containers
Environmental Emergencies
Hazardous Waste Management System
New Brunswick Biomedical Waste Inventory
New Brunswick CFC Inventory Program
New Brunswick Department of the Environment CFC User Inventory
New Brunswick Halon Inventory
PCB Inventory System
Petroleum Management System

Quebec

GERLED Inventory Database
Database on Industrial Waste Production by 50 Companies Covered by EISL's St. Lawrence Action Plan
Industrial Waste Reduction Program
Sources of Industrial Pollution
Issue of Authorizations for Pesticides System
Pulp and Paper Data Management System
Industrial Depollution Program Incident Monitoring Systems

Ontario

Manifest and Generator Registration
MISA Industrial Monitoring Information System
Utility Monitoring Information System

Manitoba

Environmental Officer Site Inventory
Industrial Wastewater Database
Inspect (Dangerous Goods and Wastes)
Post Seasonal Report Data
Register (Hazardous Waste)
Wastes (Hazardous Waste)
Water Plant Chemical and Bacteriological Data

Saskatchewan

HAL (Substance Spills)
Provincially Regulated PCB Storage Sites

Transportation of Dangerous Goods
PCB Storage Facility Database

Alberta

Timber Damage Assessments
Environment Information System

British Columbia

Database Acid Rock Drainage
Mine Waste Rock Dump Monitoring Database
Dioxins and Furans in the BC Environment
Emergency Incident Database
Pesticide Licensing and Certification
Pesticide Use Permit
Site Information System
Special Waste Management System
Special Waste System (generators, transporters)
WASTE

Northwest Territories

Hazardous Materials Spill Database

Management of Wastes

Newfoundland

Summary of Pesticide Control Use from Pesticide Control Operators

Prince Edward Island

Petroleum Storage Tank Management System
Spills

Building and Disposal Permits

Nova Scotia

Potential Limitations for On-Site Sewage Disposal (Selected Areas of Nova Scotia)
Sewer and Water Lines Inventory
Inventory of Wastewater Treatment Plants
PCB Inventory System
Pesticide Spray Control System
Petroleum Storage Applications
Salvage Yards Licensing Application

New Brunswick

Public Health Inspection Database
Active Disposal Sites
Atlantic Canada Wastewater Treatment Facility Database
Beverage Containers
Closed Dumps
Environmental Emergencies
Hazardous Waste Management System
New Brunswick Biomedical Waste Inventory
New Brunswick CFC Inventory Program
New Brunswick Department of the Environment CFC User Inventory
New Brunswick Halon Inventory
PCB Inventory System
Petroleum Management System
Recycler List

Quebec

GERLED Inventory Database
Database on MENVIQ Files that relate to Contaminated Land Rehabilitation
Database on Industrial Waste Production by 50 Companies Covered by EISL's St. Lawrence Action Plan
List of Municipalities that Carry Out Separate Collection

List of Recyclers and Collectors
Industrial Waste Reduction Program
Register

Sources of Industrial Pollution
Pulp and Paper Data Management System
Industrial Depollution Program Incident Monitoring Systems

Sludge
Insecticides
Foams

Ontario

Manifest and Generator Registration
Ontario Waste Disposal Site Inventory
Manitoba
Ammonia Database
Environmental Officer Site Inventory

Manifest (Hazardous Waste)
Pesticide Container Depots
PETSTOR (Petroleum Storage) - History
PETSTOR (Petroleum Storage) - Inspect
PETSTOR (Petroleum Storage) - Sites
Register (Hazardous Waste)
Saskatchewan
HAL (Substance Spills)
Provincially Regulated PCB Storage Sites
Sanitary Landfill Inventory
Sewage Treatment Plant/Lagoon Inventory
Storage Facility Management Program
Transportation of Dangerous Goods
PCB Storage Facility Database
Alberta
Grant Administration Management System
HELP End Landfill Pollution Data Tracking and Control System
Landfill Material Estimates Information
Environment Information System
British Columbia
Mine Waste Rock Dump Monitoring Database
Emergency Incident Database
Site Information System
Special Waste Management System
Special Waste System (generators, transporters)
WASTE
Northwest Territories
Hazardous Materials Spill Database

Harvesting

Newfoundland
Moose and Caribou Hunter Kill Location
Fishing Enterprise Survey
On-Farm Mapping
Silviculture Treatment Areas
Prince Edward Island
Total Fish Landings and Values History
Game Harvesting Data
Wild Fur Harvesting Data
Nova Scotia
Agri Food Development Agreement
Aquaculture Lease Information
Recreational Fisheries Catch Statistics
Trout Management System
Forest Production Statistics
Forest Treatment Database
Nova Scotia Forest Inventory
Nova Scotia Peatlands Inventory
Nova Scotia Resource Atlas
New Brunswick
AQUA
Hunting Surveys
Salmon Angling Survey
Silviculture Activities
Timber Harvest
Quebec
Furbearers
Beekeeping
Poultry Industry
Bio-food System
Cattle, Sheep, Hogs
Market Gardening
Fruits
Field Crops
Maple Products
Survey of Agriculture
Dairy Statistics
Fish Production
Program of Assistance to Improving Fertilizer Management
Commercial Fishery Statistics
Forest Inventory
Duck
Commercial and Sport Salmon Fishing (North Shore)
Archipelago Project
Habitat Information System

ZEC (Controlled Harvesting Zones) Information System
Big Game System
Fur System
Licensing System
Outfitters System
Ontario
Tillage 2000 - Crop Growth and Yields
Tillage 2000 - Economics
Tillage 2000 - Residue
Tillage 2000 - Soil
Black Bear Research
Fish Community Synthesis Database
Ontario Forest Resources Inventory (FRI)
Survey of Recreational Fishing in Ontario
Sport Fish Contaminant Monitoring Program
Manitoba
Manitoba Crop Insurance Corporation GIS
Manitoba Land Related Information System
Fisheries Habitat Inventory and Classification System
Saskatchewan
3P (Forests) System
Aquaculture Licence Database
Bears
Commercial Fishing System
Field and Timber Permits
Forest Inventory
Fur Harvest
Gut Can Counts
Northern Reconnaissance Inventory
Reports by Lake and by Author
Township Inventory (Forests)
Wood Flow
Alberta
CAESA Systems Evaluation
Alberta Crop Insurance Experience Data
Alberta Crop Insurance Yield Data
Alberta Mineral Deposits and Occurrences Database
Alberta Commercial Fishing License Database
Alberta Domestic Fishing License Database
Commercial Bait Fishing License Sales and Statistics
Commercial Fishing Statistics
Compulsory Registration (Wildlife)
Directory of Primary Woods
Fur Affidavits
Fur Registration
Harvest and Effort by Resident Big Game Hunters
Incisor Bar Collection (Wildlife)
Juvenile Stand Survey (Forests)
Monitor Plots (Forests)
Outfitter-Guide Activities
Permanent Sample Plot (Forests)
Pest Management Diagnostic Services
Range System
Sawmill Study Analysis
Silviculture Records Management System
Stand Dynamics System
Timber Management Planning
Timber Resource Enumeration and Evaluation System
Trapper Questionnaire
Wildlife Export Permits
British Columbia
Agricultural Statistics
Annual Fisheries Production
Aquaculture Licensing and Referral Administration System
Commercial Fish Licensing System
Conservation Outdoor Recreation and Education System
Fisheries Overview Inventory
Sportfishing Regulations Database
Summary Hunting Statistics Database
Wildfur Harvest System
Yukon
First Nation Traditional Territories
Fur Harvest Management Database
Game Management Areas

Hunting Licenses and Seal Receipts
Indian Harvest Survey
Non-resident Hunter Harvest Database
Outfitter Areas
Resident Hunter Harvest Database
Stocked Lakes
Trapline Concession Boundaries
Wildlife Specimen Collection
Woodcutting Maps
Woodcutting Permit Database
Yukon Biological Submission Database
Yukon First Nations Traditional Territories (Band Areas)
Northwest Territories
Caribou Data
Commercial Harvest Record
Forest Production Summary
Game Licence System
Northwest Territories Fur Harvest Statistics
Polar Bear Database
Resident Harvester Survey

Extraction of Resources (including water)

Newfoundland
Water Quality Database
Water Well Database
Annual Census of Mines, Quarries and Sandpits
Newfoundland Bedrock Aggregate Database
Newfoundland Mineral Occurrence Data System
1 - Mineral Inventory Reports
Newfoundland Mineral Rights Database
Newfoundland Sand and Gravel Aggregate Database
Prince Edward Island
1935 Forest Outline
1980 Forest Inventory
1990 Forest Inventory
Forest Inventory - Ground Plots
Forest Inventory - Stands
Water Well Information System
Nova Scotia
Watersheds and Watershed Studies
Fresh Water Users - Nova Scotia
Gravel Pit Sites
Nova Scotia Resource Atlas
Quebec
Survey of Agriculture
Map Library
COGITE
Oil Drilling
Mining Geology Information System
Climate Change
Ontario
Mineral Aggregate Inventory Database
Saskatchewan
Assessment Work Catalogue (Minerals)
Petroleum Production and Disposition System
Saskatchewan Mineral Deposits Index
Alberta
Land Status Automated System
Mineral Revenues System
Other Minerals Royalty System
British Columbia
Agricultural Statistics
Assessment Report Indexing System
BC Coalfile
BC MINFILE
Mine Development Assessment Process Project Database
Notice and Completion of Work (Minerals)
Petroleum Information Management System
Petroleum Titles System
Water Rights Information System
Water Well Record Files

Restructuring of Land and Water Systems

Newfoundland

Control Survey Marker Coordinates
Dams

Protected Water Supply Areas

Water Approvals

Newfoundland and Labrador Beach Permit
Information Database

Trans-Labrador Highway Environmental Study

Prince Edward Island

PEI Digital Enhanced Topographic Database -
Resource and Urban Series

Nova Scotia

Base Mapping - Nova Scotia Department
of Municipal Affairs

Flood Risk Areas Under Canada/Nova Scotia
Flood Damage Reduction Program

Nova Scotia Property Database

New Brunswick

Critical Flood Levels in the Saint John River Basin
Water Course Application

Quebec

Regional Maps of Quebec

Topographical Maps (1:20 000)

City Maps (1:1 000)

GÉODEQ

Cadastre Information System

Information System on Land Tenure
and Allocation

Private Dams

Watersheds

Watercourses

Data on the Navigability of Lakes

Computerized Systems for Monitoring Leases
and Permits Issued for, and the Sale of, Public
Waters

MTQ Investment in Quebec

Ontario

Land Index System Database

Satellite Imagery

Alberta

Farmland Development and Reclamation
Program

Irrigation/Drainage Systems Inventory

Land Irrigability Classification Index

On-Farm Irrigation Information System

Hydrological Operations Database

Land Reclamation Division Operations Database

Land Survey Document System

Prescribed Burns

Water Rights Information System

Water Rights Information System (Permit)

Water Use Information System

British Columbia

Application Entry (Agriculture)

Floodplain Management Bylaw Index

Floodplain Mapping Database

Natural Systems

Water Quality

Newfoundland

Groundwater Quality Database

Newfoundland Water Quality Network

Protected Water Supply Areas

Water Quality Database

Labrador Lake Sediment (Detail) Database

Labrador Stream Sediment Database

Newfoundland Lake Sediment Database

Newfoundland Stream Sediment Database

Prince Edward Island

Water Chemistry

Water Well Information System

Nova Scotia

Nova Scotia Farm Well Water Quality Assurance
Study Database

Water Analysis Database

Chemical Quality - Municipal Water Supplies

Naturally Occurring Uranium and Arsenic in

Groundwater in Nova Scotia

Nova Scotia Municipal Water Supplies -

Treatment Processes

Private Water Supplies - Arsenic Concentrations

Swimming Area Bacteriological Quality - Halifax

County

West River Water Sampling Program

(Pictou County) - 1991, 1992

Fresh Water Users - Nova Scotia

Groundwater Monitoring Network

Groundwater Quality

Surface Water Quality Reference System

New Brunswick

Groundwater Levels

New Brunswick Biomonitoring Program

Water Quality Database

Water Well Reports Database

Quebec

Hydrogeological Database

Aquatic Environment Quality Database

Data on Rainwater Quality (Acid Rain System)

Drinking Water

Beach Environment

Network for Monitoring Toxic Substances in the
Aquatic Environment

Monitoring of Stations Built in the Context of the
Water Treatment Program

Epidemics that Originate in Water in Quebec

Ontario

Soil and Water Environmental Enhancement
Program (SWEEP) Survey

Significant Observation Summaries in Environ-
mental Bacteriology

Aquatic Invertebrate Data

Lake Inventory Database

Dilution

Drinking Water Surveillance Program

Great Lakes Water Quality

In-Place Pollutants

Provincial Water Quality Monitoring Network

Water Well Information System

Manitoba

Community Inventory Database

Field Inspection Reports Database (Drinking
Water)

Industrial Wastewater Database

Shellmouth Reservoir/Assiniboine River

Special Aquatic Studies

Water Chemistry Database

Water Plant Chemical and Bacteriological Data

Water Quality Monitoring

Manitoba Land Related Information System

Fisheries Habitat Inventory and Classification
System

GWCHEM (Groundwater)

Saskatchewan

ESQUADAT

ESQUADAT - MPC

Water Treatment Plant/System Inventory

Ground Water Project Data

Groundwater Well and Test Hole Records

Alberta

Water Quality Data

Groundwater Bibliography

Groundwater Well Data

NAQUADAT (Water Quality)

Streamflow and Water Quality

Trace Organic Analysis Database

Treated Water Survey

Tri Creek Data

Water Laboratory Information Management
System

British Columbia

Aquatic Plant Files

BC Lakes

Groundwater Observation Well Network

Groundwater Section NTS Files

QA Round-Robin (Water Quality)

Water Quality Check Program Data

Water Quality Criteria, Assessments
and Objectives Reports

Water Well Record Files

Research Water Quality Monitoring

Upper Penticton Creek Experimental Watershed

Water Sampling Analysis Computer System

Northwest Territories

Public Register (Water Licences)

Air Quality

Newfoundland

Acid Rain Monitoring

SO₂, TSP and Ozone Monitoring
in Newfoundland

Vehicle Emissions Clinic Data

Nova Scotia

Air Pollution Monitoring System

New Brunswick

New Brunswick Biomonitoring Program

New Brunswick Precipitation Monitoring Network

New Brunswick Residue Discharge Information
System

Saint John-Southern New Brunswick Air Quality
Monitoring Network

Quebec

Inventory of Air Emissions

Air Quality System

Air Contaminants

Ontario

Acidic Precipitation in Ontario Study

Air Quality Information System

Great Lakes Toxics Deposition

Ontario Emission Inventory System Model

PCDD/PCDF Monitoring

Personal Exposure

Polycyclic Aromatic Hydrocarbons

Volatile Organic Compounds

Manitoba

Air Quality Data

Manitoba Network for Precipitation Collection

Stack Sampling Database

Saskatchewan

Clean Air Act Permit System

Air Emissions Database

Alberta

Air Laboratory Information Management System

Ambient Air Information System

British Columbia

BC MOE ARB Climate Data Capture

BC MOE ARB Meteorological Information System

Continuous Ambient Monitoring Information

Northwest Territories

Yellowknife Ambient Air Quality Data

Soil Quality

Newfoundland

Labrador Quaternary Geochem Database

Labrador Soil Surveys Database

Newfoundland Soil Survey Database

Prince Edward Island

Laboratory Information System

Permanent Forest Sample Plot

Soils of Prince Edward Island

Nova Scotia

Land Evaluation and Planning Service 1:10 000
Soil Surveys

Land Evaluation and Planning Service Site
Database

Nova Scotia Farm Well Water Quality Assurance
Study Database

Soil Fertility
 Potential Limitations for On-Site Sewage Disposal
 (Selected Areas of Nova Scotia)
 Potential Occurrence of Radon Gas
 in Nova Scotia
 Biophysical Classification
New Brunswick
 New Brunswick Biomonitoring Program
Quebec
 Field Crops
 Referenced Database on Quebec Soil
 Quebec Geochemical Database
 Ecological Framework for Quebec
Ontario
 Organic Matter
 Soil and Water Environmental Enhancement
 Program (SWEEP) Survey
 Tillage 2000 - Crop Growth and Yields
 Tillage 2000 - Economics
 Tillage 2000 - Residue
 Tillage 2000 - Soil
 Ontario Typical Range
 Soil Baseline Chemistry
 Toronto Lead Survey
 Toxic Organics in the Terrestrial Environment
Manitoba
 Manitoba Land Related Information System
Alberta
 ASANL Soil Test Database
 Organic Soils Research Database
 PLOTS - Conservation Tillage Plot Data
 Soil Fertility Research Database
 Soil Inventory Database for Management
 and Planning
 Climate Data Information System
 Trace Organic Analysis Database
British Columbia
 BC Soil Information System
 BC Soil Survey
 Computer Assisted Planning and Map Production
 (Soils)
 Ecological Classification Database and Analysis
 System
Yukon
 Agricultural/Grazing Application Soil Reviews
 Klondike River Valley Soils Map
 Soil Fertility and Feed Quality Database
 Southern Lakes Ecological Land Survey

Status of Biota (including Wildlife and Fish)

Newfoundland
 Insect Defoliation
Prince Edward Island
 Total Fish Landings and Values History
 Fish Populations at Fishways
 Game Harvesting Data
 Wild Fur Harvesting Data
Nova Scotia
 Plant Tissue Database
 Maritime Breeding Bird Atlas
 Natural History Collection Files
 Nova Scotia Stranding Network
 Aquaculture Lease Information
 Recreational Fisheries Catch Statistics
 Trout Management System
 Nova Scotia Wetlands Atlas
 Wildlife Habitats - Other
 Wildlife Habitats - Wetlands
New Brunswick
 Natural History - New Brunswick Museum
 Salmon Angling Survey
Quebec
 Cattle, Sheep, Hogs
 Survey of Agriculture
 Fish Production
 Commercial Fishery Statistics

Aquatic Environment Quality Database
 Data Centre on the Natural Heritage of Quebec
 General Collection
 ENVIRODOQ
 Network for Monitoring Toxic Substances
 in the Aquatic Environment
 Database on Contamination of the Northern
 Aquatic Food Chain
 Environmental Assessment
 Archipelago Project
 Aquatic Fauna Information System
 Habitat Information System
 ZEC (Controlled Harvesting Zones) Information
 System
 Fish Stocking Management System
Ontario
 Government of Ontario Information Holdings
 Catalogue
 Survey of Pesticide Use in Ontario
 Tillage 2000 - Crop Growth and Yields
 Tillage 2000 - Economics
 Tillage 2000 - Residue
 Tillage 2000 - Soil
 Aquatic Invertebrate Data
 Atlas of [Species Name] Lakes in Ontario
 Biological and Conservation Data System
 Black Bear Research
 Crown Land Survey Records
 Deer Winter Feeding
 Large River Inventory Data
 Ontario Land Inventory (OLI)
 Ontario Wildlife Information System
 Polar Bear Research Data
 Rabies Research Data and Specimen Collection
 Stream Inventory Data
 Watershed Maps
 Wildlife Health Research Data
 Wildlife Radio Tracking Data
 Wildlife Research Necropsy Records
 and Specimen Collections
 Wolf Research Data and Specimen Collection
 Sport Fish Contaminant Monitoring Program
 Ministry of Natural Resources Aquatic
 Habitat Inventory
 Herpetology
 Ichthyology
 Mammalogy
 Ornithology
 Vertebrate Paleontology
Manitoba
 Biomonitoring
 Fisheries Habitat Inventory and Classification
 System
Saskatchewan
 Antelope Survey Database
 Aquaculture Licence Database
 Bears
 Big Game Aerial Survey Database
 Commercial Fishing System
 Diseased Fish Database
 Field Record Book (Fish) Database
 Fish Catch
 Fish Facts Database
 Fish Mercury Analysis Database
 Fish Stocking Database
 Gut Can Counts
 Lake Species Database
 Operation Burrowing Owl
 Reports by Lake and by Author
 SPEAC (Wildlife)
 Terrestrial Wildlife Habitat Inventory
 Terrestrial Wildlife Habitat Inventory - Critical
 Wildlife Habitat
 Waterfowl Compensation
 Wildlife Check Station Database
 Conservation Source Abstracts
 Conservation Tracts
 Eco-monitoring/Eco-Visits
 Element Characterization Abstracts (Wildlife)
 Element Global, National, and Subnational
 Ranking Form (Wildlife)

Element Occurrence File (Wildlife)
 Element Stewardship Abstract (Wildlife)
 Element Tracking File (Wildlife)
 Ferruginous Hawk Database
 Piping Plover Breeding Data
 Sites (Wildlife)
 Saskatchewan (Waterfowl) Dedicated Lands
Alberta
 Provincial Museum of Alberta Sciences Database
 Aspen Biodiversity Database
 Avian Nest Data
 Bird Atlas
 Commercial Fishing Statistics
 Compulsory Registration (Wildlife)
 Environmentally Significant Areas
 Forest Ecology - Site Classification
 Incisor Bar Collection (Wildlife)
 Trace Organic Analysis Database
British Columbia
 Agricultural Statistics
 Aquaculture Licensing and Referral Administra-
 tion System
 Coastal Data Set Inventory
 Aerial Wildlife Survey Database
 Aquatic Plant Files
 BC Lakes
 BC Listed Species
 BC Nest Records Scheme
 BC Parks Observation Cards
 BC Seabird Colony File
 BC Wildlife Occurrence File
 Biological Conservation Database
 Biological Database Inventory
 Biophysical Inventory Tracking Database
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 Describing Ecosystems in the Field
 Ecological Reserves
 Fishstock Release Records
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 Resource Folios for Aquatic Plant Management
 in BC
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 Ungulate Winter Flight Maps
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Yukon
 Dempster Highway Management Strategy
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 Fish and Wildlife Occurrence Data
 Game Management Areas
 Greater Kluane Land Use Plan
 Kusawa Lake Ecological Land Classification
 Land Use Permit Database
 Outfitter Areas
 Soil Fertility and Feed Quality Database
 Southern Lakes Ecological Land Survey
 Stewart River/Atlin Aquatics
 Stocked Lakes
 Watson-Wheaton Resource Inventory Study
 Wildlife Key Habitat Database and Maps
 Wildlife Relocation Databases and Maps
 Wildlife Specimen Collection
 Wildlife Surveys
 Yukon Biological Submission Database
Northwest Territories
 Caribou Data
 Polar Bear Database
 Productivity of Central Arctic Geese
 Wolf Den
 Science Institute of the Northwest Territories
 Database on Licensed Research

Ecosystem State

Newfoundland

Forest Capability
Insect Damage
Insect Defoliation
Trans-Labrador Highway Environmental Study

New Brunswick

Environmentally Significant Areas
in New Brunswick
Groundwater Levels

Quebec

Field Crops
Survey of Agriculture
Map Library
COGITE
EXAMINE
Oil Drilling
Cadastre Information System
Database on MENVIQ Files that relate to Contaminated Land Rehabilitation
Ecological Framework for Quebec
Beach Environment
Computerized Systems for Monitoring Leases and Permits Issued for, and the Sale of, Public Waters
Database on Contamination of the Northern Aquatic Food Chain

Ontario

Air Photo Library
Large Scale Photography
Localized Remote Sensing Thematic Maps
Ontario Forest Resources Inventory (FRI)
Ontario Land Inventory (OLI)

Manitoba

Manitoba Land Related Information System

Saskatchewan

Northern Reconnaissance Inventory
Terrestrial Wildlife Habitat Inventory
UTM Inventory (Forests)
Sites (Wildlife)

Alberta

Aerial Photo Mapping Catalogue
Alberta Agricultural Land Base Monitoring Study
Aspen Biodiversity Database
Environmentally Significant Areas
Forest Ecology - Site Classification
Prescribed Burns
Tri Creek Data
Vegetation Information System

British Columbia

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Aquatic Plant Files
Biological Conservation Database
Biological Database Inventory
Biophysical Inventory Tracking Database
Biophysical Lake Inventory
Describing Ecosystems in the Field
Ecological Reserve Proposals Registry
Ecological Reserve Registry
Ecological Reserves
Habitat Monitoring Database
Resource Folios for Aquatic Plant Management in BC
Stream and Lake Inventory
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Ecological Classification Database and Analysis System
Upper Penticton Creek Experimental Watershed

Yukon

Dempster Highway Management Strategy
Greater Klane Land Use Plan
Kusawa Lake Ecological Land Classification
Protected Areas Inventory
Southern Lakes Ecological Land Survey
Vegetation Inventory Field Database
Vegetation Inventory Maps
Watson-Wheaton Resource Inventory Study

Status of Other Resources (minerals, water quantity)

Newfoundland

Lakes
Water Approvals
Water Well Database
Forest Capability
Forest Type Maps
Forestry Alienations
Silviculture Treatment Areas
Annual Census of Mines, Quarries and Sandpits
Granite Lithogeochemistry (1) Newfoundland
(2) Labrador

Grenville Province Projects Database
Labrador Geochronology Database
Labrador Lake Sediment (Detail) Database
Labrador Mapping Database
Labrador Quaternary Geochem Database
Labrador Stream Sediment Database
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Newfoundland Carbon 14 Database
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Prince Edward Island

1935 Forest Outline
1980 Forest Inventory
1990 Forest Inventory
Forest Inventory - Ground Plots
Forest Inventory - Stands
Permanent Forest Sample Plot
PEI Digital Enhanced Topographic Database -
Resource and Urban Series
Crown Land Inventory

Nova Scotia

Natural History Collection Files
Rural Settlement Pattern, Settlement Record
and Agricultural Land Use
Watersheds and Watershed Studies
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Metallic Mineral Occurrences Database
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Nova Scotia Peatlands Inventory
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Groundwater Monitoring Network
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Gravel Pit Sites
Nova Scotia 1:250 000 Topographic Database
Nova Scotia 1:500 000 Planimetric Database
Nova Scotia Coordinate Control System

Resource Topographic Database of Nova Scotia
1:10 000

Urban Topographic Databases of Nova Scotia
1:2 000

Nova Scotia Resource Atlas

New Brunswick

Natural History - New Brunswick Museum
Coastal Geomorphology and Geology
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Database Analysis of Quebec Rocks
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Beach Monitoring
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GWDRILL (Groundwater)
HYDATA

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General Purpose Base Map Data Set
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Assessment Work Catalogue (Minerals)
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Upper Penticton Creek Experimental Watershed

Yukon

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Dempster Highway Management Strategy
Dempster Highway Surficial Inventory
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Kusawa Lake Ecological Land Classification
Land Use Permit Database
Protected Areas Inventory
Recreation Features Inventory
Southern Lakes Ecological Land Survey
Vegetation Inventory Field Database
Vegetation Inventory Maps
Watson-Wheaton Resource Inventory Study
Woodcutting Maps
Yukon Herbarium Database
Yukon Lakes Database

Yukon Archaeological Sites Database
Yukon Historic Sites Inventory
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Community Planning Mapping Project
Values-at-Risk (Fire)
Vegetation Classification of Mackenzie River Corridor
Public Register (Water Licences)
Science Institute of the Northwest Territories Database on Licensed Research

Natural Processes (storms, erosion)

Newfoundland

Insect Damage
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Quaternary and Geochemistry South West Newfoundland
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Frost Risk Areas
Soybean Adaptation Trial

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Flood Risk Areas Under Canada/Nova Scotia
Flood Damage Reduction Program

Rain Chemistry Database

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General Collection
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Agricultural Agroclimatology
Soil and Water Environmental Enhancement Program (SWEEP) Survey
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Fire Chronology

Alberta

Automated Lightning Detection System
Climate Data Information System
Fire History and Detection System
Fire Statistics System
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British Columbia

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BC MOE ARB Meteorological Information System
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Floodplain Management Bylaw Index
Floodplain Mapping Database
Snow Pillow Data
Snow Survey System
State of the Environment Hydrology Files
BC Forest Service Fire Weather Network
BC Forestry Research Branch FRDA Climate Network
BC Silviculture Coastal Seed Orchards Climate Network
West Arm Demonstration Forest
Ministry of Highways Remote Weather Stations
Northwest Territories
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Fire History of the Northwest Territories

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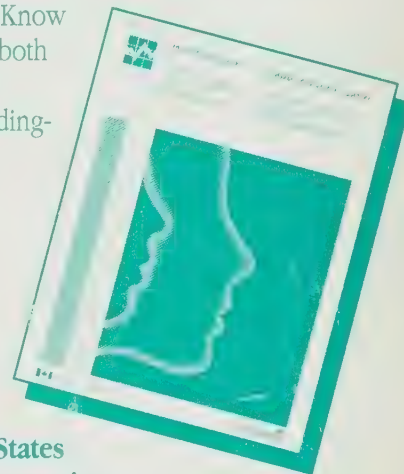
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